Table_1

REMARK S. aureus TrxB coordinates
REMARK r= 0.258305 free_r= 0.293707
REMARK DATE:10-May-99 08:21:18   created by user: tebenson
CRYST1   90.400   90.400   193.100   90.00   90.00   90.00 P43212

ATOM	1	N	ASP	6	86.358	-4.764	79.826	1.00	31.56
ATOM	2	CA	ASP	6	87.132	-3.803	80.603	1.00	30.50
ATOM	3	CB	ASP	6	88.580	-4.264	80.703	1.00	30.54
ATOM	4	CG	ASP	6	89.483	-3.207	81.277	1.00	29.23
ATOM	5	OD1	ASP	6	89.615	-3.150	82.513	1.00	27.87
ATOM	6	OD2	ASP	6	90.061	-2.434	80.488	1.00	29.99
ATOM	7	C	ASP	6	87.077	-2.420	79.972	1.00	29.96
ATOM	8	O	ASP	6	87.598	-2.202	78.877	1.00	29.14
ATOM	9	N	PHE	7	86.451	-1.486	80.681	1.00	28.97
ATOM	10	CA	PHE	7	86.297	-0.121	80.199	1.00	28.07
ATOM	11	CB	PHE	7	84.828	0.142	79.859	1.00	26.91
ATOM	12	CG	PHE	7	84.372	-0.519	78.594	1.00	26.11
ATOM	13	CD1	PHE	7	83.917	-1.833	78.605	1.00	26.30
ATOM	14	CD2	PHE	7	84.423	0.163	77.386	1.00	24.29
ATOM	15	CE1	PHE	7	83.520	-2.461	77.425	1.00	25.21
ATOM	16	CE2	PHE	7	84.028	-0.453	76.202	1.00	24.70
ATOM	17	CZ	PHE	7	83.578	-1.769	76.220	1.00	24.09
ATOM	18	C	PHE	7	86.742	0.883	81.246	1.00	28.09
ATOM	19	O	PHE	7	87.177	0.513	82.335	1.00	29.23
ATOM	20	N	ASP	8	86.625	2.161	80.907	1.00	28.33
ATOM	21	CA	ASP	8	86.979	3.232	81.827	1.00	26.88
ATOM	22	CB	ASP	8	87.386	4.480	81.045	1.00	25.63

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					Table_1				
ATOM	23	CG	ASP	8	88.834	4.446	80.618	1.00	25.07
ATOM	24	OD1	ASP	8	89.669	4.004	81.431	1.00	25.68
ATOM	25	OD2	ASP	8	89.142	4.857	79.478	1.00	24.53
ATOM	26	C	ASP	8	85.718	3.510	82.631	1.00	26.54
ATOM	27	O	ASP	8	85.735	3.596	83.861	1.00	25.79
ATOM	28	N	ILE	9	84.612	3.635	81.907	1.00	26.57
ATOM	29	CA	ILE	9	83.325	3.899	82.519	1.00	26.04
ATOM	30	CB	ILE	9	82.900	5.368	82.328	1.00	25.14
ATOM	31	CG2	ILE	9	81.523	5.590	82.943	1.00	24.57
ATOM	32	CG1	ILE	9	83.954	6.292	82.942	1.00	25.39
ATOM	33	CD1	ILE	9	83.447	7.669	83.303	1.00	26.91
ATOM	34	C	ILE	9	82.255	3.018	81.904	1.00	25.75
ATOM	35	O	ILE	9	82.157	2.903	80.681	1.00	25.75
ATOM	36	N	ALA	10	81.462	2.391	82.766	1.00	25.26
ATOM	37	CA	ALA	10	80.367	1.540	82.332	1.00	25.23
ATOM	38	CB	ALA	10	80.477	0.158	82.964	1.00	25.07
ATOM	39	C	ALA	10	79.088	2.223	82.787	1.00	25.05
ATOM	40	O	ALA	10	78.870	2.419	83.982	1.00	24.49
ATOM	41	N	ILE	11	78.253	2.605	81.830	1.00	23.94
ATOM	42	CA	ILE	11	77.001	3.262	82.152	1.00	22.69
ATOM	43	CB	ILE	11	76.722	4.426	81.191	1.00	21.93
ATOM	44	CG2	ILE	11	75.340	4.992	81.455	1.00	22.39
ATOM	45	CG1	ILE	11	77.784	5.510	81.371	1.00	19.76
ATOM	46	CD1	ILE	11	78.324	6.038	80.074	1.00	19.60

Table_1

ATOM	47	C	ILE	11	75.870	2.252	82.056	1.00	21.65
ATOM	48	O	ILE	11	75.570	1.739	80.981	1.00	22.13
ATOM	49	N	ILE	12	75.246	1.963	83.188	1.00	20.22
ATOM	50	CA	ILE	12	74.152	1.010	83.206	1.00	20.37
ATOM	51	CB	ILE	12	74.052	0.300	84.557	1.00	21.39
ATOM	52	CG2	ILE	12	72.996	-0.781	84.493	1.00	20.43
ATOM	53	CG1	ILE	12	75.403	-0.302	84.932	1.00	21.93
ATOM	54	CD1	ILE	12	75.621	-0.385	86.426	1.00	23.66
ATOM	55	C	ILE	12	72.835	1.718	82.943	1.00	20.11
ATOM	56	O	ILE	12	72.302	2.392	83.820	1.00	19.83
ATOM	57	N	GLY	13	72.309	1.550	81.735	1.00	20.37
ATOM	58	CA	GLY	13	71.057	2.190	81.371	1.00	20.47
ATOM	59	C	GLY	13	71.273	3.222	80.278	1.00	19.54
ATOM	60	O	GLY	13	72.141	4.081	80.395	1.00	19.91
ATOM	61	N	ALA	14	70.489	3.139	79.210	1.00	20.25
ATOM	62	CA	ALA	14	70.616	4.078	78.102	1.00	20.13
ATOM	63	CB	ALA	14	70.822	3.328	76.793	1.00	17.58
ATOM	64	C	ALA	14	69.404	4.995	77.993	1.00	19.85
ATOM	65	O	ALA	14	68.793	5.112	76.935	1.00	20.00
ATOM	66	N	GLY	15	69.048	5.621	79.109	1.00	20.77
ATOM	67	CA	GLY	15	67.943	6.555	79.112	1.00	19.61
ATOM	68	C	GLY	15	68.629	7.880	78.878	1.00	20.04
ATOM	69	O	GLY	15	69.847	7.895	78.712	1.00	20.00
ATOM	70	N	PRO	16	67.905	9.006	78.854	1.00	20.15

Table_1

ATOM	71	CD	PRO	16	66.455	9.161	79.026	1.00	19.48
ATOM	72	CA	PRO	16	68.572	10.295	78.626	1.00	20.62
ATOM	73	CB	PRO	16	67.460	11.327	78.838	1.00	20.22
ATOM	74	CG	PRO	16	66.340	10.579	79.489	1.00	20.61
ATOM	75	C	PRO	16	69.757	10.533	79.563	1.00	19.68
ATOM	76	O	PRO	16	70.768	11.116	79.172	1.00	20.04
ATOM	77	N	ALA	17	69.626	10.077	80.801	1.00	18.90
ATOM	78	CA	ALA	17	70.682	10.242	81.786	1.00	17.83
ATOM	79	CB	ALA	17	70.197	9.771	83.137	1.00	16.39
ATOM	80	C	ALA	17	71.927	9.468	81.381	1.00	18.59
ATOM	81	O	ALA	17	73.044	9.977	81.472	1.00	19.49
ATOM	82	N	GLY	18	71.729	8.235	80.924	1.00	18.07
ATOM	83	CA	GLY	18	72.848	7.402	80.529	1.00	16.32
ATOM	84	C	GLY	18	73.475	7.799	79.213	1.00	17.05
ATOM	85	O	GLY	18	74.688	7.682	79.036	1.00	17.20
ATOM	86	N	MET	19	72.651	8.263	78.282	1.00	16.36
ATOM	87	CA	MET	19	73.145	8.672	76.980	1.00	15.58
ATOM	88	CB	MET	19	71.981	8.779	75.997	1.00	13.60
ATOM	89	CG	MET	19	71.387	7.417	75.672	1.00	9.02
ATOM	90	SD	MET	19	70.325	7.346	74.241	1.00	2.30
ATOM	91	CE	MET	19	68.874	8.069	74.883	1.00	2.93
ATOM	92	C	MET	19	73.902	9.987	77.064	1.00	16.87
ATOM	93	O	MET	19	74.802	10.242	76.268	1.00	17.96
ATOM	94	N	THR	20	73.551	10.821	78.037	1.00	17.65

Table_1

ATOM	95	CA	THR	20	74.226	12.104	78.196	1.00	18.64
ATOM	96	CB	THR	20	73.378	13.079	79.008	1.00	18.62
ATOM	97	OG1	THR	20	72.118	13.250	78.355	1.00	19.63
ATOM	98	CG2	THR	20	74.066	14.424	79.109	1.00	17.24
ATOM	99	C	THR	20	75.569	11.928	78.883	1.00	17.92
ATOM	100	O	THR	20	76.507	12.681	78.632	1.00	18.84
ATOM	101	N	ALA	21	75.658	10.934	79.754	1.00	17.33
ATOM	102	CA	ALA	21	76.904	10.660	80.450	1.00	18.13
ATOM	103	CB	ALA	21	76.663	9.677	81.580	1.00	18.33
ATOM	104	C	ALA	21	77.877	10.073	79.435	1.00	19.14
ATOM	105	O	ALA	21	79.083	10.318	79.486	1.00	19.79
ATOM	106	N	ALA	22	77.336	9.299	78.502	1.00	18.93
ATOM	107	CA	ALA	22	78.143	8.679	77.468	1.00	19.08
ATOM	108	CB	ALA	22	77.323	7.647	76.716	1.00	18.57
ATOM	109	C	ALA	22	78.671	9.726	76.504	1.00	19.62
ATOM	110	O	ALA	22	79.809	9.642	76.047	1.00	21.52
ATOM	111	N	VAL	23	77.843	10.714	76.182	1.00	20.11
ATOM	112	CA	VAL	23	78.273	11.764	75.269	1.00	18.96
ATOM	113	CB	VAL	23	77.151	12.787	75.005	1.00	17.43
ATOM	114	CG1	VAL	23	77.722	14.021	74.319	1.00	15.16
ATOM	115	CG2	VAL	23	76.073	12.154	74.150	1.00	14.91
ATOM	116	C	VAL	23	79.450	12.496	75.886	1.00	18.83
ATOM	117	O	VAL	23	80.469	12.722	75.238	1.00	18.15
ATOM	118	N	TYR	24	79.304	12.851	77.154	1.00	19.62

Table_1

ATOM	119	CA	TYR	24	80.348	13.575	77.859	1.00	21.06
ATOM	120	CB	TYR	24	79.787	14.136	79.171	1.00	21.19
ATOM	121	CG	TYR	24	79.241	15.537	79.024	1.00	22.20
ATOM	122	CD1	TYR	24	77.979	15.761	78.472	1.00	23.11
ATOM	123	CE1	TYR	24	77.485	17.052	78.300	1.00	22.80
ATOM	124	CD2	TYR	24	79.999	16.642	79.399	1.00	21.29
ATOM	125	CE2	TYR	24	79.517	17.936	79.232	1.00	22.53
ATOM	126	CZ	TYR	24	78.263	18.134	78.678	1.00	23.61
ATOM	127	OH	TYR	24	77.793	19.415	78.492	1.00	24.19
ATOM	128	C	TYR	24	81.596	12.736	78.127	1.00	21.82
ATOM	129	O	TYR	24	82.719	13.193	77.897	1.00	21.15
ATOM	130	N	ALA	25	81.403	11.512	78.606	1.00	22.01
ATOM	131	CA	ALA	25	82.528	10.635	78.909	1.00	21.56
ATOM	132	CB	ALA	25	82.038	9.401	79.645	1.00	22.11
ATOM	133	C	ALA	25	83.305	10.222	77.666	1.00	21.55
ATOM	134	O	ALA	25	84.533	10.201	77.673	1.00	21.80
ATOM	135	N	SER	26	82.592	9.899	76.595	1.00	22.37
ATOM	136	CA	SER	26	83.241	9.477	75.361	1.00	23.48
ATOM	137	CB	SER	26	82.258	8.699	74.481	1.00	25.64
ATOM	138	OG	SER	26	81.247	9.544	73.961	1.00	27.79
ATOM	139	C	SER	26	83.821	10.640	74.572	1.00	23.07
ATOM	140	O	SER	26	84.663	10.448	73.695	1.00	22.92
ATOM	141	N	ARG	27	83.360	11.849	74.862	1.00	23.66
ATOM	142	CA	ARG	27	83.893	13.007	74.163	1.00	22.86

Table_1

ATOM	143	CB	ARG	27	82.952	14.208	74.286	1.00	23.22
ATOM	144	CG	ARG	27	83.303	15.352	73.337	1.00	22.84
ATOM	145	CD	ARG	27	82.218	16.425	73.287	1.00	22.53
ATOM	146	NE	ARG	27	82.617	17.546	72.438	1.00	21.70
ATOM	147	CZ	ARG	27	82.808	18.786	72.879	1.00	23.21
ATOM	148	NH1	ARG	27	83.172	19.746	72.034	1.00	19.40
ATOM	149	NH2	ARG	27	82.629	19.066	74.168	1.00	23.28
ATOM	150	C	ARG	27	85.226	13.311	74.822	1.00	22.28
ATOM	151	O	ARG	27	86.135	13.854	74.195	1.00	22.34
ATOM	152	N	ALA	28	85.333	12.935	76.095	1.00	21.20
ATOM	153	CA	ALA	28	86.547	13.142	76.879	1.00	20.72
ATOM	154	CB	ALA	28	86.201	13.212	78.361	1.00	18.87
ATOM	155	C	ALA	28	87.517	12.003	76.619	1.00	21.59
ATOM	156	O	ALA	28	88.455	11.778	77.378	1.00	20.87
ATOM	157	N	ASN	29	87.270	11.294	75.524	1.00	22.22
ATOM	158	CA	ASN	29	88.086	10.154	75.112	1.00	23.61
ATOM	159	CB	ASN	29	89.449	10.640	74.617	1.00	24.02
ATOM	160	CG	ASN	29	89.425	11.030	73.158	1.00	25.46
ATOM	161	OD1	ASN	29	88.511	10.662	72.427	1.00	25.73
ATOM	162	ND2	ASN	29	90.425	11.793	72.724	1.00	25.52
ATOM	163	C	ASN	29	88.262	9.077	76.178	1.00	24.20
ATOM	164	O	ASN	29	89.281	8.407	76.217	1.00	24.66
ATOM	165	N	LEU	30	87.276	8.915	77.038	1.00	24.15
ATOM	166	CA	LEU	30	87.336	7.886	78.047	1.00	24.01

Table_1

ATOM	167	CB	LEU	30	86.589	8.325	79.299	1.00	22.06
ATOM	168	CG	LEU	30	87.324	9.347	80.145	1.00	21.84
ATOM	169	CD1	LEU	30	86.378	9.852	81.207	1.00	20.22
ATOM	170	CD2	LEU	30	88.552	8.719	80.781	1.00	21.63
ATOM	171	C	LEU	30	86.616	6.690	77.413	1.00	24.69
ATOM	172	O	LEU	30	85.530	6.842	76.872	1.00	26.08
ATOM	173	N	LYS	31	87.209	5.505	77.479	1.00	24.70
ATOM	174	CA	LYS	31	86.568	4.293	76.927	1.00	24.87
ATOM	175	CB	LYS	31	87.524	3.122	77.105	1.00	27.59
ATOM	176	CG	LYS	31	87.137	1.939	76.319	1.00	33.12
ATOM	177	CD	LYS	31	88.337	1.004	76.130	1.00	38.49
ATOM	178	CE	LYS	31	87.863	-0.377	75.672	1.00	41.22
ATOM	179	NZ	LYS	31	89.101	-1.148	75.480	1.00	45.08
ATOM	180	C	LYS	31	85.269	4.027	77.662	1.00	23.11
ATOM	181	O	LYS	31	85.298	3.623	78.814	1.00	21.02
ATOM	182	N	THR	32	84.137	4.179	77.004	1.00	21.82
ATOM	183	CA	THR	32	82.868	4.031	77.683	1.00	20.51
ATOM	184	CB	THR	32	82.163	5.359	77.686	1.00	22.19
ATOM	185	OG1	THR	32	83.012	6.351	78.267	1.00	23.84
ATOM	186	CG2	THR	32	80.852	5.301	78.468	1.00	22.10
ATOM	187	C	THR	32	81.910	3.020	77.054	1.00	19.14
ATOM	188	O	THR	32	81.902	2.834	75.833	1.00	17.43
ATOM	189	N	VAL	33	81.064	2.404	77.884	1.00	18.53
ATOM	190	CA	VAL	33	80.074	1.457	77.379	1.00	16.80

Table_1

ATOM	191	CB	VAL	33	80.476	-0.029	77.638	1.00	14.37
ATOM	192	CG1	VAL	33	80.411	-0.339	79.116	1.00	12.54
ATOM	193	CG2	VAL	33	79.535	-0.971	76.873	1.00	10.29
ATOM	194	C	VAL	33	78.702	1.690	78.021	1.00	17.05
ATOM	195	O	VAL	33	78.607	1.881	79.231	1.00	16.90
ATOM	196	N	MET	34	77.646	1.687	77.208	1.00	17.40
ATOM	197	CA	MET	34	76.285	1.859	77.717	1.00	17.27
ATOM	198	CB	MET	34	75.430	2.750	76.800	1.00	16.23
ATOM	199	CG	MET	34	76.087	3.984	76.237	1.00	14.64
ATOM	200	SD	MET	34	74.871	4.914	75.254	1.00	10.02
ATOM	201	CE	MET	34	73.629	5.105	76.409	1.00	5.58
ATOM	202	C	MET	34	75.677	0.467	77.709	1.00	16.61
ATOM	203	O	MET	34	75.679	-0.195	76.679	1.00	17.41
ATOM	204	N	ILE	35	75.169	0.013	78.844	1.00	17.90
ATOM	205	CA	ILE	35	74.564	-1.310	78.914	1.00	17.90
ATOM	206	CB	ILE	35	75.155	-2.113	80.081	1.00	18.15
ATOM	207	CG2	ILE	35	74.458	-3.451	80.193	1.00	19.13
ATOM	208	CG1	ILE	35	76.656	-2.313	79.862	1.00	15.10
ATOM	209	CD1	ILE	35	77.460	-2.357	81.143	1.00	17.20
ATOM	210	C	ILE	35	73.062	-1.139	79.105	1.00	18.22
ATOM	211	O	ILE	35	72.620	-0.580	80.102	1.00	18.82
ATOM	212	N	GLU	36	72.275	-1.619	78.150	1.00	18.75
ATOM	213	CA	GLU	36	70.826	-1.462	78.229	1.00	20.47
ATOM	214	CB	GLU	36	70.379	-0.428	77.195	1.00	20.28

Table_1

ATOM	215	CG	GLU	36	68.884	-0.351	77.003	1.00	21.67
ATOM	216	CD	GLU	36	68.188	0.149	78.241	1.00	23.45
ATOM	217	OE1	GLU	36	68.584	1.215	78.757	1.00	23.08
ATOM	218	OE2	GLU	36	67.247	-0.526	78.703	1.00	24.17
ATOM	219	C	GLU	36	70.061	-2.766	78.010	1.00	20.84
ATOM	220	O	GLU	36	70.405	-3.546	77.128	1.00	21.78
ATOM	221	N	ARG	37	69.016	-2.994	78.803	1.00	21.80
ATOM	222	CA	ARG	37	68.215	-4.211	78.673	1.00	23.98
ATOM	223	CB	ARG	37	67.871	-4.774	80.056	1.00	23.46
ATOM	224	CG	ARG	37	66.670	-4.150	80.745	1.00	21.46
ATOM	225	CD	ARG	37	66.742	-4.449	82.225	1.00	20.37
ATOM	226	NE	ARG	37	65.596	-3.958	82.978	1.00	20.03
ATOM	227	CZ	ARG	37	65.496	-4.051	84.300	1.00	19.49
ATOM	228	NH1	ARG	37	66.472	-4.617	84.996	1.00	17.60
ATOM	229	NH2	ARG	37	64.422	-3.587	84.926	1.00	19.98
ATOM	230	C	ARG	37	66.939	-4.017	77.858	1.00	25.42
ATOM	231	O	ARG	37	66.104	-4.921	77.759	1.00	25.26
ATOM	232	N	GLY	38	66.797	-2.836	77.267	1.00	27.19
ATOM	233	CA	GLY	38	65.628	-2.551	76.458	1.00	27.62
ATOM	234	C	GLY	38	65.997	-1.766	75.213	1.00	28.02
ATOM	235	O	GLY	38	66.883	-2.156	74.451	1.00	28.44
ATOM	236	N	ILE	39	65.310	-0.650	75.013	1.00	27.18
ATOM	237	CA	ILE	39	65.553	0.211	73.874	1.00	26.20
ATOM	238	CB	ILE	39	64.236	0.559	73.174	1.00	27.06

Table_1

ATOM	239	CG2	ILE	39	64.463	1.619	72.116	1.00	28.15
ATOM	240	CG1	ILE	39	63.656	-0.696	72.532	1.00	28.70
ATOM	241	CD1	ILE	39	64.675	-1.489	71.750	1.00	28.53
ATOM	242	C	ILE	39	66.197	1.491	74.366	1.00	25.59
ATOM	243	O	ILE	39	65.783	2.036	75.387	1.00	27.62
ATOM	244	N	PRO	40	67.224	1.984	73.672	1.00	24.14
ATOM	245	CD	PRO	40	67.879	1.466	72.452	1.00	23.39
ATOM	246	CA	PRO	40	67.846	3.225	74.133	1.00	22.75
ATOM	247	CB	PRO	40	68.872	3.545	73.055	1.00	22.06
ATOM	248	CG	PRO	40	69.160	2.231	72.415	1.00	22.01
ATOM	249	C	PRO	40	66.751	4.286	74.226	1.00	22.83
ATOM	250	O	PRO	40	65.876	4.345	73.365	1.00	22.88
ATOM	251	N	GLY	41	66.791	5.104	75.268	1.00	22.12
ATOM	252	CA	GLY	41	65.777	6.128	75.433	1.00	21.99
ATOM	253	C	GLY	41	65.050	6.013	76.760	1.00	21.98
ATOM	254	O	GLY	41	64.649	7.020	77.338	1.00	22.31
ATOM	255	N	GLY	42	64.882	4.788	77.245	1.00	21.61
ATOM	256	CA	GLY	42	64.194	4.579	78.505	1.00	21.09
ATOM	257	C	GLY	42	62.719	4.903	78.408	1.00	20.93
ATOM	258	O	GLY	42	62.029	4.430	77.509	1.00	21.22
ATOM	259	N	GLN	43	62.231	5.714	79.336	1.00	21.58
ATOM	260	CA	GLN	43	60.832	6.096	79.337	1.00	23.29
ATOM	261	CB	GLN	43	60.507	6.862	80.616	1.00	26.92
ATOM	262	CG	GLN	43	60.579	5.988	81.859	1.00	33.92

Table_1

ATOM	263	CD	GLN	43	60.306	6.749	83.147	1.00	39.37
ATOM	264	OE1	GLN	43	60.268	6.162	84.233	1.00	40.91
ATOM	265	NE2	GLN	43	60.116	8.059	83.036	1.00	42.32
ATOM	266	C	GLN	43	60.514	6.942	78.115	1.00	22.58
ATOM	267	O	GLN	43	59.389	6.932	77.618	1.00	23.12
ATOM	268	N	MET	44	61.514	7.664	77.621	1.00	21.48
ATOM	269	CA	MET	44	61.331	8.516	76.455	1.00	20.24
ATOM	270	CB	MET	44	62.667	9.131	76.042	1.00	17.56
ATOM	271	CG	MET	44	63.001	10.435	76.749	1.00	13.03
ATOM	272	SD	MET	44	64.326	11.354	75.962	1.00	4.82
ATOM	273	CE	MET	44	65.292	10.078	75.300	1.00	8.84
ATOM	274	C	MET	44	60.758	7.723	75.293	1.00	22.45
ATOM	275	O	MET	44	59.842	8.170	74.606	1.00	23.94
ATOM	276	N	ALA	45	61.307	6.537	75.073	1.00	24.59
ATOM	277	CA	ALA	45	60.859	5.675	73.988	1.00	25.01
ATOM	278	CB	ALA	45	61.764	4.448	73.902	1.00	23.50
ATOM	279	C	ALA	45	59.408	5.244	74.185	1.00	25.71
ATOM	280	O	ALA	45	58.854	4.527	73.358	1.00	26.48
ATOM	281	N	ASN	46	58.799	5.685	75.281	1.00	27.25
ATOM	282	CA	ASN	46	57.417	5.327	75.590	1.00	29.19
ATOM	283	CB	ASN	46	57.339	4.657	76.959	1.00	31.08
ATOM	284	CG	ASN	46	57.526	3.164	76.885	1.00	32.26
ATOM	285	OD1	ASN	46	58.131	2.559	77.770	1.00	33.01
ATOM	286	ND2	ASN	46	57.007	2.555	75.824	1.00	33.13

Table_1

ATOM	287	C	ASN	46	56.507	6.539	75.590	1.00	29.51
ATOM	288	O	ASN	46	55.316	6.438	75.897	1.00	29.72
ATOM	289	N	THR	47	57.077	7.690	75.258	1.00	29.18
ATOM	290	CA	THR	47	56.310	8.917	75.224	1.00	29.28
ATOM	291	CB	THR	47	57.118	10.076	75.806	1.00	30.32
ATOM	292	OG1	THR	47	57.619	9.707	77.099	1.00	29.44
ATOM	293	CG2	THR	47	56.245	11.319	75.938	1.00	30.07
ATOM	294	C	THR	47	55.929	9.232	73.792	1.00	29.32
ATOM	295	O	THR	47	56.729	9.066	72.881	1.00	30.01
ATOM	296	N	GLU	48	54.697	9.679	73.598	1.00	29.96
ATOM	297	CA	GLU	48	54.219	10.012	72.271	1.00	31.12
ATOM	298	CB	GLU	48	52.698	10.117	72.274	1.00	33.11
ATOM	299	CG	GLU	48	51.986	8.933	72.877	1.00	36.25
ATOM	300	CD	GLU	48	51.953	7.749	71.938	1.00	38.17
ATOM	301	OE1	GLU	48	50.869	7.152	71.756	1.00	41.12
ATOM	302	OE2	GLU	48	53.018	7.411	71.382	1.00	38.97
ATOM	303	C	GLU	48	54.802	11.343	71.847	1.00	30.84
ATOM	304	O	GLU	48	55.372	11.467	70.761	1.00	30.71
ATOM	305	N	GLU	49	54.663	12.345	72.710	1.00	30.57
ATOM	306	CA	GLU	49	55.169	13.681	72.421	1.00	31.15
ATOM	307	CB	GLU	49	54.042	14.514	71.808	1.00	32.45
ATOM	308	CG	GLU	49	53.312	13.791	70.678	1.00	35.45
ATOM	309	CD	GLU	49	52.396	14.704	69.882	1.00	38.44
ATOM	310	OE1	GLU	49	51.808	15.631	70.481	1.00	40.25

Table_1

ATOM	311	OE2	GLU	49	52.262	14.493	68.657	1.00	39.03
ATOM	312	C	GLU	49	55.783	14.418	73.618	1.00	30.53
ATOM	313	O	GLU	49	55.197	14.481	74.696	1.00	31.04
ATOM	314	N	VAL	50	56.968	14.979	73.410	1.00	29.88
ATOM	315	CA	VAL	50	57.665	15.716	74.444	1.00	28.71
ATOM	316	CB	VAL	50	59.082	15.201	74.607	1.00	28.86
ATOM	317	CG1	VAL	50	59.733	15.834	75.816	1.00	26.74
ATOM	318	CG2	VAL	50	59.065	13.683	74.736	1.00	29.15
ATOM	319	C	VAL	50	57.724	17.174	74.002	1.00	28.20
ATOM	320	O	VAL	50	58.139	17.466	72.875	1.00	26.47
ATOM	321	N	GLU	51	57.316	18.085	74.884	1.00	27.99
ATOM	322	CA	GLU	51	57.312	19.505	74.559	1.00	27.26
ATOM	323	CB	GLU	51	55.882	19.991	74.342	1.00	28.14
ATOM	324	CG	GLU	51	55.053	19.085	73.480	1.00	32.24
ATOM	325	CD	GLU	51	53.837	19.780	72.939	1.00	35.27
ATOM	326	OE1	GLU	51	53.253	19.262	71.967	1.00	37.07
ATOM	327	OE2	GLU	51	53.468	20.843	73.486	1.00	35.62
ATOM	328	C	GLU	51	57.963	20.384	75.611	1.00	25.66
ATOM	329	O	GLU	51	57.798	21.600	75.580	1.00	25.89
ATOM	330	N	ASN	52	58.700	19.794	76.543	1.00	22.44
ATOM	331	CA	ASN	52	59.343	20.609	77.559	1.00	20.26
ATOM	332	CB	ASN	52	58.726	20.347	78.931	1.00	20.31
ATOM	333	CG	ASN	52	58.582	18.882	79.230	1.00	18.68
ATOM	334	OD1	ASN	52	59.094	18.037	78.498	1.00	18.31

Table_1

ATOM	335	ND2	ASN	52	57.883	18.567	80.315	1.00	15.76
ATOM	336	C	ASN	52	60.844	20.397	77.611	1.00	19.65
ATOM	337	O	ASN	52	61.507	20.810	78.558	1.00	18.29
ATOM	338	N	PHE	53	61.390	19.742	76.598	1.00	19.43
ATOM	339	CA	PHE	53	62.823	19.558	76.575	1.00	20.15
ATOM	340	CB	PHE	53	63.218	18.230	75.937	1.00	19.27
ATOM	341	CG	PHE	53	64.699	17.986	75.954	1.00	19.53
ATOM	342	CD1	PHE	53	65.378	17.828	77.158	1.00	18.67
ATOM	343	CD2	PHE	53	65.422	17.970	74.773	1.00	19.40
ATOM	344	CE1	PHE	53	66.756	17.660	77.179	1.00	16.81
ATOM	345	CE2	PHE	53	66.797	17.802	74.788	1.00	18.87
ATOM	346	CZ	PHE	53	67.465	17.649	75.992	1.00	16.93
ATOM	347	C	PHE	53	63.343	20.713	75.742	1.00	20.70
ATOM	348	O	PHE	53	63.169	20.743	74.525	1.00	19.62
ATOM	349	N	PRO	54	63.984	21.691	76.397	1.00	21.11
ATOM	350	CD	PRO	54	64.251	21.686	77.841	1.00	21.16
ATOM	351	CA	PRO	54	64.543	22.886	75.763	1.00	20.20
ATOM	352	CB	PRO	54	65.488	23.447	76.830	1.00	21.40
ATOM	353	CG	PRO	54	65.550	22.399	77.915	1.00	20.16
ATOM	354	C	PRO	54	65.251	22.648	74.439	1.00	19.60
ATOM	355	O	PRO	54	66.285	21.990	74.386	1.00	19.95
ATOM	356	N	GLY	55	64.695	23.202	73.368	1.00	19.94
ATOM	357	CA	GLY	55	65.301	23.040	72.059	1.00	19.33
ATOM	358	C	GLY	55	64.390	22.347	71.070	1.00	19.38

Table_1

ATOM	359	O	GLY	55	64.579	22.456	69.862	1.00	19.63
ATOM	360	N	PHE	56	63.400	21.628	71.587	1.00	19.75
ATOM	361	CA	PHE	56	62.445	20.909	70.753	1.00	19.67
ATOM	362	CB	PHE	56	62.614	19.398	70.935	1.00	18.92
ATOM	363	CG	PHE	56	64.003	18.898	70.639	1.00	17.98
ATOM	364	CD1	PHE	56	64.925	18.726	71.658	1.00	17.96
ATOM	365	CD2	PHE	56	64.379	18.579	69.343	1.00	17.51
ATOM	366	CE1	PHE	56	66.205	18.246	71.393	1.00	19.49
ATOM	367	CE2	PHE	56	65.659	18.097	69.064	1.00	17.25
ATOM	368	CZ	PHE	56	66.572	17.928	70.093	1.00	17.13
ATOM	369	C	PHE	56	61.040	21.307	71.176	1.00	21.11
ATOM	370	O	PHE	56	60.596	20.938	72.259	1.00	22.28
ATOM	371	N	GLU	57	60.342	22.058	70.333	1.00	21.33
ATOM	372	CA	GLU	57	58.989	22.485	70.660	1.00	23.25
ATOM	373	CB	GLU	57	58.521	23.546	69.660	1.00	25.10
ATOM	374	CG	GLU	57	58.970	24.953	70.049	1.00	29.32
ATOM	375	CD	GLU	57	58.675	26.002	68.991	1.00	31.69
ATOM	376	OE1	GLU	57	57.583	25.965	68.388	1.00	33.22
ATOM	377	OE2	GLU	57	59.542	26.873	68.766	1.00	32.56
ATOM	378	C	GLU	57	58.047	21.286	70.666	1.00	23.79
ATOM	379	O	GLU	57	57.031	21.276	71.361	1.00	23.03
ATOM	380	N	MET	58	58.396	20.276	69.879	1.00	25.32
ATOM	381	CA	MET	58	57.615	19.052	69.804	1.00	26.04
ATOM	382	CB	MET	58	56.304	19.270	69.048	1.00	27.28

Table_1

ATOM	383	CG	MET	58	55.371	18.063	69.106	1.00	29.17
ATOM	384	SD	MET	58	55.992	16.670	68.140	1.00	31.15
ATOM	385	CE	MET	58	55.460	15.371	69.096	1.00	27.98
ATOM	386	C	MET	58	58.421	17.969	69.110	1.00	26.02
ATOM	387	O	MET	58	58.862	18.132	67.970	1.00	25.91
ATOM	388	N	ILE	59	58.610	16.862	69.813	1.00	24.58
ATOM	389	CA	ILE	59	59.345	15.726	69.288	1.00	24.22
ATOM	390	CB	ILE	59	60.861	15.869	69.569	1.00	23.36
ATOM	391	CG2	ILE	59	61.127	15.748	71.060	1.00	23.09
ATOM	392	CG1	ILE	59	61.643	14.813	68.785	1.00	23.00
ATOM	393	CD1	ILE	59	63.051	15.243	68.402	1.00	20.60
ATOM	394	C	ILE	59	58.799	14.494	69.993	1.00	24.16
ATOM	395	O	ILE	59	58.506	14.539	71.191	1.00	23.67
ATOM	396	N	THR	60	58.634	13.401	69.258	1.00	23.59
ATOM	397	CA	THR	60	58.121	12.180	69.857	1.00	22.59
ATOM	398	CB	THR	60	57.676	11.187	68.777	1.00	21.52
ATOM	399	OG1	THR	60	58.789	10.865	67.936	1.00	20.21
ATOM	400	CG2	THR	60	56.582	11.793	67.929	1.00	20.47
ATOM	401	C	THR	60	59.224	11.557	70.703	1.00	22.36
ATOM	402	O	THR	60	60.406	11.667	70.369	1.00	23.10
ATOM	403	N	GLY	61	58.840	10.921	71.800	1.00	21.79
ATOM	404	CA	GLY	61	59.820	10.293	72.672	1.00	22.16
ATOM	405	C	GLY	61	60.794	9.422	71.900	1.00	22.05
ATOM	406	O	GLY	61	62.008	9.512	72.107	1.00	21.79

Table_1

ATOM	407	N	PRO	62	60.300	8.557	71.012	1.00	21.58
ATOM	408	CD	PRO	62	58.872	8.312	70.718	1.00	21.35
ATOM	409	CA	PRO	62	61.168	7.679	70.222	1.00	20.29
ATOM	410	CB	PRO	62	60.193	6.787	69.456	1.00	20.04
ATOM	411	CG	PRO	62	58.885	6.933	70.164	1.00	19.17
ATOM	412	C	PRO	62	62.103	8.444	69.282	1.00	19.36
ATOM	413	O	PRO	62	63.193	7.975	68.957	1.00	18.84
ATOM	414	N	ASP	63	61.679	9.616	68.840	1.00	19.62
ATOM	415	CA	ASP	63	62.500	10.416	67.941	1.00	20.28
ATOM	416	CB	ASP	63	61.632	11.441	67.202	1.00	23.23
ATOM	417	CG	ASP	63	60.993	10.855	65.946	1.00	27.50
ATOM	418	OD1	ASP	63	61.435	9.766	65.522	1.00	29.73
ATOM	419	OD2	ASP	63	60.059	11.464	65.380	1.00	29.22
ATOM	420	C	ASP	63	63.615	11.103	68.715	1.00	19.63
ATOM	421	O	ASP	63	64.739	11.220	68.230	1.00	18.15
ATOM	422	N	LEU	64	63.308	11.555	69.925	1.00	19.40
ATOM	423	CA	LEU	64	64.335	12.183	70.739	1.00	19.14
ATOM	424	CB	LEU	64	63.727	12.848	71.979	1.00	18.51
ATOM	425	CG	LEU	64	64.659	13.796	72.751	1.00	19.93
ATOM	426	CD1	LEU	64	65.580	14.552	71.799	1.00	18.76
ATOM	427	CD2	LEU	64	63.820	14.765	73.553	1.00	19.82
ATOM	428	C	LEU	64	65.306	11.082	71.160	1.00	19.04
ATOM	429	O	LEU	64	66.509	11.308	71.259	1.00	19.67
ATOM	430	N	SER	65	64.775	9.884	71.396	1.00	18.35

Table_1

ATOM	431	CA	SER	65	65.591	8.738	71.796	1.00	17.01
ATOM	432	CB	SER	65	64.699	7.531	72.053	1.00	14.95
ATOM	433	OG	SER	65	63.903	7.752	73.195	1.00	13.21
ATOM	434	C	SER	65	66.581	8.416	70.691	1.00	17.96
ATOM	435	O	SER	65	67.750	8.113	70.936	1.00	17.70
ATOM	436	N	THR	66	66.106	8.489	69.459	1.00	18.78
ATOM	437	CA	THR	66	66.963	8.213	68.318	1.00	20.54
ATOM	438	CB	THR	66	66.137	8.175	67.034	1.00	21.32
ATOM	439	OG1	THR	66	65.050	7.256	67.190	1.00	21.43
ATOM	440	CG2	THR	66	66.993	7.736	65.854	1.00	20.61
ATOM	441	C	THR	66	68.059	9.280	68.184	1.00	21.43
ATOM	442	O	THR	66	69.194	8.976	67.839	1.00	22.69
ATOM	443	N	LYS	67	67.717	10.526	68.494	1.00	21.85
ATOM	444	CA	LYS	67	68.667	11.633	68.397	1.00	21.44
ATOM	445	CB	LYS	67	67.976	12.950	68.729	1.00	23.34
ATOM	446	CG	LYS	67	66.893	13.337	67.781	1.00	24.99
ATOM	447	CD	LYS	67	67.450	14.011	66.542	1.00	29.24
ATOM	448	CE	LYS	67	66.343	14.545	65.641	1.00	31.53
ATOM	449	NZ	LYS	67	66.917	15.090	64.377	1.00	33.41
ATOM	450	C	LYS	67	69.795	11.417	69.380	1.00	20.91
ATOM	451	O	LYS	67	70.960	11.270	69.015	1.00	22.48
ATOM	452	N	MET	68	69.419	11.396	70.645	1.00	17.92
ATOM	453	CA	MET	68	70.363	11.198	71.721	1.00	16.48
ATOM	454	CB	MET	68	69.600	11.145	73.033	1.00	14.78

Table_1

ATOM	455	CG	MET	68	69.356	12.511	73.608	1.00	9.71
ATOM	456	SD	MET	68	68.772	12.423	75.269	1.00	2.77
ATOM	457	CE	MET	68	67.354	13.401	75.158	1.00	8.39
ATOM	458	C	MET	68	71.248	9.967	71.581	1.00	17.27
ATOM	459	O	MET	68	72.407	10.004	71.969	1.00	17.46
ATOM	460	N	PHE	69	70.726	8.882	71.021	1.00	18.04
ATOM	461	CA	PHE	69	71.539	7.671	70.908	1.00	18.39
ATOM	462	CB	PHE	69	70.672	6.455	70.558	1.00	18.27
ATOM	463	CG	PHE	69	71.450	5.168	70.460	1.00	16.91
ATOM	464	CD1	PHE	69	71.925	4.534	71.604	1.00	16.56
ATOM	465	CD2	PHE	69	71.740	4.613	69.221	1.00	16.05
ATOM	466	CE1	PHE	69	72.674	3.368	71.509	1.00	16.27
ATOM	467	CE2	PHE	69	72.488	3.450	69.120	1.00	16.38
ATOM	468	CZ	PHE	69	72.957	2.829	70.263	1.00	16.30
ATOM	469	C	PHE	69	72.657	7.798	69.893	1.00	18.93
ATOM	470	O	PHE	69	73.803	7.429	70.155	1.00	19.74
ATOM	471	N	GLU	70	72.314	8.326	68.729	1.00	19.91
ATOM	472	CA	GLU	70	73.277	8.513	67.668	1.00	19.95
ATOM	473	CB	GLU	70	72.554	8.951	66.399	1.00	21.49
ATOM	474	CG	GLU	70	71.844	7.809	65.695	1.00	24.71
ATOM	475	CD	GLU	70	70.943	8.274	64.569	1.00	29.58
ATOM	476	OE1	GLU	70	70.984	9.470	64.216	1.00	31.78
ATOM	477	OE2	GLU	70	70.189	7.437	64.030	1.00	32.41
ATOM	478	C	GLU	70	74.314	9.545	68.080	1.00	19.72

Table_1

ATOM	479	O	GLU	70	75.419	9.559	67.554	1.00	21.01
ATOM	480	N	HIS	71	73.953	10.411	69.021	1.00	20.06
ATOM	481	CA	HIS	71	74.867	11.434	69.518	1.00	20.14
ATOM	482	CB	HIS	71	74.093	12.504	70.300	1.00	19.34
ATOM	483	CG	HIS	71	74.908	13.706	70.672	1.00	19.32
ATOM	484	CD2	HIS	71	76.224	13.983	70.504	1.00	18.72
ATOM	485	ND1	HIS	71	74.365	14.810	71.294	1.00	17.47
ATOM	486	CE1	HIS	71	75.305	15.712	71.493	1.00	18.55
ATOM	487	NE2	HIS	71	76.445	15.236	71.023	1.00	19.60
ATOM	488	C	HIS	71	75.842	10.732	70.447	1.00	21.28
ATOM	489	O	HIS	71	77.057	10.837	70.296	1.00	21.55
ATOM	490	N	ALA	72	75.289	9.998	71.405	1.00	22.84
ATOM	491	CA	ALA	72	76.087	9.261	72.376	1.00	24.66
ATOM	492	CB	ALA	72	75.174	8.567	73.375	1.00	23.12
ATOM	493	C	ALA	72	77.002	8.236	71.711	1.00	26.06
ATOM	494	O	ALA	72	77.947	7.759	72.325	1.00	27.89
ATOM	495	N	LYS	73	76.716	7.899	70.458	1.00	27.52
ATOM	496	CA	LYS	73	77.514	6.925	69.718	1.00	28.10
ATOM	497	CB	LYS	73	76.609	6.057	68.832	1.00	27.86
ATOM	498	CG	LYS	73	76.103	4.768	69.457	1.00	29.33
ATOM	499	CD	LYS	73	77.229	3.777	69.738	1.00	31.04
ATOM	500	CE	LYS	73	78.032	3.448	68.482	1.00	32.03
ATOM	501	NZ	LYS	73	77.500	2.270	67.745	1.00	31.64
ATOM	502	C	LYS	73	78.518	7.650	68.828	1.00	28.56

Table_1

ATOM	503	O	LYS	73	79.458	7.056	68.319	1.00	28.81
ATOM	504	N	LYS	74	78.297	8.941	68.631	1.00	29.14
ATOM	505	CA	LYS	74	79.170	9.740	67.782	1.00	29.00
ATOM	506	CB	LYS	74	78.597	11.149	67.644	1.00	30.29
ATOM	507	CG	LYS	74	79.513	12.099	66.885	1.00	32.22
ATOM	508	CD	LYS	74	78.989	13.531	66.873	1.00	33.71
ATOM	509	CE	LYS	74	79.811	14.371	65.921	1.00	33.98
ATOM	510	NZ	LYS	74	79.292	15.753	65.898	1.00	36.49
ATOM	511	C	LYS	74	80.631	9.833	68.227	1.00	28.52
ATOM	512	O	LYS	74	81.536	9.875	67.389	1.00	27.53
ATOM	513	N	PHE	75	80.863	9.875	69.535	1.00	27.88
ATOM	514	CA	PHE	75	82.215	9.996	70.060	1.00	27.92
ATOM	515	CB	PHE	75	82.197	10.945	71.257	1.00	28.43
ATOM	516	CG	PHE	75	81.639	12.294	70.938	1.00	28.14
ATOM	517	CD1	PHE	75	82.361	13.180	70.150	1.00	28.71
ATOM	518	CD2	PHE	75	80.376	12.664	71.382	1.00	28.63
ATOM	519	CE1	PHE	75	81.836	14.419	69.806	1.00	29.26
ATOM	520	CE2	PHE	75	79.841	13.905	71.042	1.00	28.42
ATOM	521	CZ	PHE	75	80.573	14.781	70.250	1.00	28.48
ATOM	522	C	PHE	75	82.912	8.687	70.436	1.00	28.12
ATOM	523	O	PHE	75	83.921	8.690	71.147	1.00	28.25
ATOM	524	N	GLY	76	82.375	7.566	69.968	1.00	27.73
ATOM	525	CA	GLY	76	83.009	6.293	70.263	1.00	27.25
ATOM	526	C	GLY	76	82.498	5.505	71.452	1.00	26.98

Table_1

ATOM	527	O	GLY	76	83.157	4.561	71.897	1.00	27.33
ATOM	528	N	ALA	77	81.338	5.880	71.978	1.00	26.45
ATOM	529	CA	ALA	77	80.776	5.156	73.109	1.00	26.04
ATOM	530	CB	ALA	77	79.632	5.936	73.727	1.00	25.66
ATOM	531	C	ALA	77	80.280	3.818	72.590	1.00	25.89
ATOM	532	O	ALA	77	79.714	3.739	71.499	1.00	26.29
ATOM	533	N	VAL	78	80.506	2.767	73.367	1.00	25.16
ATOM	534	CA	VAL	78	80.085	1.433	72.980	1.00	24.65
ATOM	535	CB	VAL	78	81.144	0.391	73.387	1.00	25.72
ATOM	536	CG1	VAL	78	80.526	-0.996	73.471	1.00	26.03
ATOM	537	CG2	VAL	78	82.275	0.395	72.376	1.00	26.45
ATOM	538	C	VAL	78	78.757	1.101	73.640	1.00	24.39
ATOM	539	O	VAL	78	78.527	1.439	74.799	1.00	24.29
ATOM	540	N	TYR	79	77.883	0.446	72.885	1.00	23.45
ATOM	541	CA	TYR	79	76.575	0.059	73.388	1.00	22.75
ATOM	542	CB	TYR	79	75.483	0.640	72.491	1.00	21.60
ATOM	543	CG	TYR	79	74.083	0.219	72.861	1.00	23.20
ATOM	544	CD1	TYR	79	73.429	0.789	73.951	1.00	24.36
ATOM	545	CE1	TYR	79	72.131	0.417	74.285	1.00	26.00
ATOM	546	CD2	TYR	79	73.401	-0.736	72.110	1.00	22.54
ATOM	547	CE2	TYR	79	72.106	-1.113	72.437	1.00	24.76
ATOM	548	CZ	TYR	79	71.476	-0.531	73.523	1.00	25.84
ATOM	549	OH	TYR	79	70.187	-0.888	73.844	1.00	28.93
ATOM	550	C	TYR	79	76.489	-1.461	73.415	1.00	22.60

Table_1

ATOM	551	O	TYR	79	76.858	-2.129	72.453	1.00	21.31
ATOM	552	N	GLN	80	76.004	-2.002	74.527	1.00	23.77
ATOM	553	CA	GLN	80	75.874	-3.443	74.684	1.00	24.35
ATOM	554	CB	GLN	80	77.023	-3.988	75.532	1.00	25.24
ATOM	555	CG	GLN	80	78.265	-4.356	74.735	1.00	26.49
ATOM	556	CD	GLN	80	79.432	-4.707	75.626	1.00	27.12
ATOM	557	OE1	GLN	80	79.251	-5.228	76.728	1.00	28.88
ATOM	558	NE2	GLN	80	80.643	-4.422	75.158	1.00	28.03
ATOM	559	C	GLN	80	74.557	-3.799	75.344	1.00	23.86
ATOM	560	O	GLN	80	74.185	-3.227	76.372	1.00	23.60
ATOM	561	N	TYR	81	73.851	-4.753	74.752	1.00	23.09
ATOM	562	CA	TYR	81	72.577	-5.182	75.299	1.00	23.64
ATOM	563	CB	TYR	81	71.798	-5.966	74.249	1.00	23.49
ATOM	564	CG	TYR	81	70.507	-6.536	74.774	1.00	25.27
ATOM	565	CD1	TYR	81	69.354	-5.756	74.834	1.00	26.53
ATOM	566	CE1	TYR	81	68.164	-6.272	75.328	1.00	27.53
ATOM	567	CD2	TYR	81	70.441	-7.848	75.230	1.00	26.38
ATOM	568	CE2	TYR	81	69.256	-8.374	75.727	1.00	28.03
ATOM	569	CZ	TYR	81	68.125	-7.580	75.777	1.00	27.85
ATOM	570	OH	TYR	81	66.949	-8.097	76.266	1.00	30.05
ATOM	571	C	TYR	81	72.811	-6.053	76.523	1.00	23.53
ATOM	572	O	TYR	81	73.693	-6.912	76.514	1.00	23.64
ATOM	573	N	GLY	82	72.025	-5.833	77.574	1.00	22.62
ATOM	574	CA	GLY	82	72.180	-6.632	78.774	1.00	22.41

Table_1

ATOM	575	C	GLY	82	71.392	-6.145	79.969	1.00 22.92
ATOM	576	O	GLY	82	71.052	-4.969	80.062	1.00 24.22
ATOM	577	N	ASP	83	71.090	-7.066	80.881	1.00 22.77
ATOM	578	CA	ASP	83	70.359	-6.750	82.098	1.00 23.02
ATOM	579	CB	ASP	83	69.165	-7.690	82.273	1.00 22.36
ATOM	580	CG	ASP	83	68.367	-7.391	83.523	1.00 24.60
ATOM	581	OD1	ASP	83	68.788	-6.518	84.316	1.00 25.95
ATOM	582	OD2	ASP	83	67.313	-8.028	83.718	1.00 25.80
ATOM	583	C	ASP	83	71.352	-6.959	83.222	1.00 23.77
ATOM	584	O	ASP	83	71.592	-8.085	83.652	1.00 25.72
ATOM	585	N	ILE	84	71.954	-5.877	83.688	1.00 23.91
ATOM	586	CA	ILE	84	72.931	-5.990	84.754	1.00 24.43
ATOM	587	CB	ILE	84	73.607	-4.638	85.014	1.00 22.98
ATOM	588	CG2	ILE	84	74.440	-4.697	86.283	1.00 22.32
ATOM	589	CG1	ILE	84	74.506	-4.284	83.833	1.00 22.59
ATOM	590	CD1	ILE	84	75.117	-5.484	83.127	1.00 20.74
ATOM	591	C	ILE	84	72.253	-6.494	86.020	1.00 26.43
ATOM	592	O	ILE	84	71.235	-5.959	86.451	1.00 28.41
ATOM	593	N	LYS	85	72.825	-7.542	86.603	1.00 27.22
ATOM	594	CA	LYS	85	72.262	-8.118	87.814	1.00 27.53
ATOM	595	CB	LYS	85	72.182	-9.642	87.688	1.00 28.03
ATOM	596	CG	LYS	85	70.959	-10.109	86.910	1.00 29.87
ATOM	597	CD	LYS	85	71.324	-10.799	85.604	1.00 29.64
ATOM	598	CE	LYS	85	70.121	-11.574	85.103	1.00 31.93

Table_1

ATOM	599	NZ	LYS	85	69.719	-11.196	83.723	1.00	32.13
ATOM	600	C	LYS	85	73.016	-7.727	89.075	1.00	27.18
ATOM	601	O	LYS	85	72.508	-7.906	90.182	1.00	25.68
ATOM	602	N	SER	86	74.216	-7.176	88.950	1.00	27.21
ATOM	603	CA	SER	86	74.935	-6.779	90.155	1.00	27.98
ATOM	604	CB	SER	86	75.280	-8.009	90.999	1.00	28.89
ATOM	605	OG	SER	86	76.372	-8.699	90.421	1.00	30.96
ATOM	606	C	SER	86	76.214	-6.036	89.814	1.00	28.80
ATOM	607	O	SER	86	76.716	-6.154	88.703	1.00	27.97
ATOM	608	N	VAL	87	76.735	-5.278	90.783	1.00	30.18
ATOM	609	CA	VAL	87	77.976	-4.506	90.625	1.00	31.56
ATOM	610	CB	VAL	87	77.683	-3.001	90.402	1.00	31.31
ATOM	611	CG1	VAL	87	78.964	-2.197	90.516	1.00	30.74
ATOM	612	CG2	VAL	87	77.050	-2.785	89.038	1.00	31.76
ATOM	613	C	VAL	87	78.772	-4.648	91.920	1.00	32.81
ATOM	614	O	VAL	87	78.182	-4.725	92.993	1.00	33.02
ATOM	615	N	GLU	88	80.101	-4.694	91.822	1.00	35.08
ATOM	616	CA	GLU	88	80.956	-4.830	93.004	1.00	37.67
ATOM	617	CB	GLU	88	81.420	-6.275	93.168	1.00	39.71
ATOM	618	CG	GLU	88	80.299	-7.293	93.161	1.00	44.80
ATOM	619	CD	GLU	88	80.555	-8.425	92.187	1.00	48.74
ATOM	620	OE1	GLU	88	81.205	-9.420	92.584	1.00	50.44
ATOM	621	OE2	GLU	88	80.109	-8.316	91.024	1.00	49.68
ATOM	622	C	GLU	88	82.179	-3.928	92.936	1.00	38.68

Table_1

ATOM	623	O	GLU	88	82.878	-3.892	91.923	1.00	37.07
ATOM	624	N	ASP	89	82.439	-3.210	94.026	1.00	40.61
ATOM	625	CA	ASP	89	83.581	-2.306	94.089	1.00	43.12
ATOM	626	CB	ASP	89	83.280	-1.113	95.006	1.00	44.72
ATOM	627	CG	ASP	89	82.863	-1.538	96.407	1.00	47.60
ATOM	628	OD1	ASP	89	82.143	-2.553	96.534	1.00	48.40
ATOM	629	OD2	ASP	89	83.256	-0.854	97.381	1.00	47.49
ATOM	630	C	ASP	89	84.824	-3.028	94.583	1.00	43.33
ATOM	631	O	ASP	89	85.159	-2.979	95.766	1.00	44.57
ATOM	632	N	LYS	90	85.511	-3.704	93.672	1.00	42.89
ATOM	633	CA	LYS	90	86.722	-4.418	94.033	1.00	42.16
ATOM	634	CB	LYS	90	87.031	-5.499	92.993	1.00	42.40
ATOM	635	CG	LYS	90	85.901	-6.504	92.809	1.00	41.68
ATOM	636	CD	LYS	90	85.775	-7.437	93.999	1.00	41.63
ATOM	637	CE	LYS	90	85.901	-8.882	93.551	1.00	42.07
ATOM	638	NZ	LYS	90	85.498	-9.044	92.129	1.00	41.25
ATOM	639	C	LYS	90	87.882	-3.435	94.146	1.00	41.38
ATOM	640	O	LYS	90	89.014	-3.743	93.779	1.00	40.70
ATOM	641	N	GLY	91	87.580	-2.237	94.641	1.00	41.34
ATOM	642	CA	GLY	91	88.600	-1.220	94.838	1.00	40.72
ATOM	643	C	GLY	91	89.126	-0.411	93.663	1.00	40.76
ATOM	644	O	GLY	91	88.662	0.697	93.402	1.00	41.99
ATOM	645	N	GLU	92	90.116	-0.955	92.967	1.00	41.12
ATOM	646	CA	GLU	92	90.737	-0.270	91.837	1.00	40.68

Table_1

ATOM	647	CB	GLU	92	92.134	-0.847	91.605	1.00	43.88
ATOM	648	CG	GLU	92	93.272	0.144	91.788	1.00	48.83
ATOM	649	CD	GLU	92	94.379	-0.068	90.771	1.00	51.43
ATOM	650	OE1	GLU	92	95.082	-1.100	90.866	1.00	51.75
ATOM	651	OE2	GLU	92	94.540	0.794	89.876	1.00	52.94
ATOM	652	C	GLU	92	89.937	-0.376	90.547	1.00	39.01
ATOM	653	O	GLU	92	90.355	0.124	89.504	1.00	38.47
ATOM	654	N	TYR	93	88.785	-1.026	90.621	1.00	37.00
ATOM	655	CA	TYR	93	87.947	-1.215	89.452	1.00	35.56
ATOM	656	CB	TYR	93	88.656	-2.144	88.461	1.00	38.22
ATOM	657	CG	TYR	93	88.815	-3.551	88.999	1.00	40.78
ATOM	658	CD1	TYR	93	87.719	-4.411	89.075	1.00	41.01
ATOM	659	CE1	TYR	93	87.830	-5.677	89.619	1.00	41.36
ATOM	660	CD2	TYR	93	90.038	-4.003	89.483	1.00	41.05
ATOM	661	CE2	TYR	93	90.163	-5.274	90.032	1.00	42.77
ATOM	662	CZ	TYR	93	89.053	-6.103	90.100	1.00	42.06
ATOM	663	OH	TYR	93	89.167	-7.350	90.661	1.00	42.71
ATOM	664	C	TYR	93	86.660	-1.864	89.934	1.00	33.40
ATOM	665	O	TYR	93	86.586	-2.331	91.070	1.00	31.98
ATOM	666	N	LYS	94	85.663	-1.920	89.057	1.00	32.11
ATOM	667	CA	LYS	94	84.380	-2.527	89.393	1.00	31.67
ATOM	668	CB	LYS	94	83.273	-1.483	89.293	1.00	31.76
ATOM	669	CG	LYS	94	83.148	-0.648	90.528	1.00	32.35
ATOM	670	CD	LYS	94	84.170	0.471	90.521	1.00	32.82

Table_1

ATOM	671	CE	LYS	94	84.260	1.169	91.870	1.00	31.96
ATOM	672	NZ	LYS	94	85.374	2.150	91.790	1.00	30.73
ATOM	673	C	LYS	94	84.050	-3.697	88.479	1.00	30.87
ATOM	674	O	LYS	94	84.569	-3.803	87.368	1.00	31.08
ATOM	675	N	VAL	95	83.206	-4.601	88.948	1.00	29.54
ATOM	676	CA	VAL	95	82.835	-5.739	88.135	1.00	29.31
ATOM	677	CB	VAL	95	83.097	-7.046	88.873	1.00	29.64
ATOM	678	CG1	VAL	95	82.723	-8.228	87.989	1.00	28.82
ATOM	679	CG2	VAL	95	84.558	-7.127	89.288	1.00	28.56
ATOM	680	C	VAL	95	81.345	-5.623	87.853	1.00	28.15
ATOM	681	O	VAL	95	80.541	-5.632	88.777	1.00	27.41
ATOM	682	N	ILE	96	80.973	-5.493	86.585	1.00	28.58
ATOM	683	CA	ILE	96	79.566	-5.392	86.238	1.00	28.98
ATOM	684	CB	ILE	96	79.338	-4.357	85.112	1.00	28.68
ATOM	685	CG2	ILE	96	77.902	-4.426	84.617	1.00	29.19
ATOM	686	CG1	ILE	96	79.620	-2.947	85.640	1.00	28.86
ATOM	687	CD1	ILE	96	81.097	-2.631	85.784	1.00	29.98
ATOM	688	C	ILE	96	79.132	-6.773	85.774	1.00	30.37
ATOM	689	O	ILE	96	79.487	-7.211	84.682	1.00	31.02
ATOM	690	N	ASN	97	78.369	-7.460	86.617	1.00	30.40
ATOM	691	CA	ASN	97	77.917	-8.811	86.315	1.00	30.39
ATOM	692	CB	ASN	97	77.737	-9.576	87.633	1.00	30.57
ATOM	693	CG	ASN	97	76.899	-10.822	87.481	1.00	32.44
ATOM	694	OD1	ASN	97	76.990	-11.527	86.478	1.00	32.51

Table_1

ATOM	695	ND2	ASN	97	76.075	-11.105	88.486	1.00	34.15
ATOM	696	C	ASN	97	76.639	-8.859	85.470	1.00	29.63
ATOM	697	O	ASN	97	75.552	-8.514	85.935	1.00	28.35
ATOM	698	N	PHE	98	76.788	-9.291	84.220	1.00	28.87
ATOM	699	CA	PHE	98	75.673	-9.398	83.281	1.00	29.03
ATOM	700	CB	PHE	98	76.194	-9.601	81.854	1.00	28.99
ATOM	701	CG	PHE	98	76.695	-8.347	81.187	1.00	29.52
ATOM	702	CD1	PHE	98	77.929	-7.806	81.530	1.00	29.45
ATOM	703	CD2	PHE	98	75.955	-7.735	80.179	1.00	28.86
ATOM	704	CE1	PHE	98	78.425	-6.682	80.871	1.00	28.78
ATOM	705	CE2	PHE	98	76.444	-6.611	79.515	1.00	28.97
ATOM	706	CZ	PHE	98	77.680	-6.083	79.865	1.00	28.91
ATOM	707	C	PHE	98	74.787	-10.589	83.619	1.00	29.15
ATOM	708	O	PHE	98	73.633	-10.661	83.190	1.00	29.26
ATOM	709	N	GLY	99	75.342	-11.525	84.381	1.00	30.30
ATOM	710	CA	GLY	99	74.622	-12.734	84.732	1.00	31.83
ATOM	711	C	GLY	99	75.421	-13.950	84.283	1.00	32.03
ATOM	712	O	GLY	99	75.570	-14.905	85.034	1.00	32.85
ATOM	713	N	ASN	100	75.941	-13.910	83.060	1.00	32.57
ATOM	714	CA	ASN	100	76.732	-15.010	82.517	1.00	34.11
ATOM	715	CB	ASN	100	75.901	-15.842	81.544	1.00	35.18
ATOM	716	CG	ASN	100	74.793	-16.600	82.233	1.00	36.78
ATOM	717	OD1	ASN	100	73.649	-16.594	81.793	1.00	37.62
ATOM	718	ND2	ASN	100	75.131	-17.260	83.330	1.00	37.65

Table_1

ATOM	719	C	ASN	100	77.941	-14.416	81.795	1.00	34.04
ATOM	720	O	ASN	100	78.603	-15.082	80.996	1.00	35.74
ATOM	721	N	LYS	101	78.220	-13.150	82.103	1.00	33.57
ATOM	722	CA	LYS	101	79.316	-12.407	81.480	1.00	32.53
ATOM	723	CB	LYS	101	78.802	-11.666	80.241	1.00	33.27
ATOM	724	CG	LYS	101	79.828	-10.869	79.403	1.00	32.54
ATOM	725	CD	LYS	101	79.088	-9.762	78.591	1.00	31.57
ATOM	726	CE	LYS	101	79.929	-9.082	77.487	1.00	32.38
ATOM	727	NZ	LYS	101	80.534	-7.783	77.918	1.00	35.53
ATOM	728	C	LYS	101	79.760	-11.426	82.538	1.00	32.89
ATOM	729	O	LYS	101	79.021	-11.123	83.461	1.00	31.21
ATOM	730	N	GLU	102	80.982	-10.958	82.384	1.00	33.99
ATOM	731	CA	GLU	102	81.527	-10.030	83.344	1.00	34.90
ATOM	732	CB	GLU	102	82.459	-10.771	84.317	1.00	35.50
ATOM	733	CG	GLU	102	81.841	-11.064	85.691	1.00	37.11
ATOM	734	CD	GLU	102	82.871	-11.584	86.658	1.00	39.86
ATOM	735	OE1	GLU	102	84.063	-11.462	86.337	1.00	42.21
ATOM	736	OE2	GLU	102	82.511	-12.111	87.728	1.00	40.38
ATOM	737	C	GLU	102	82.262	-8.953	82.572	1.00	34.92
ATOM	738	O	GLU	102	82.882	-9.214	81.543	1.00	35.26
ATOM	739	N	LEU	103	82.131	-7.725	83.057	1.00	34.32
ATOM	740	CA	LEU	103	82.776	-6.566	82.435	1.00	32.15
ATOM	741	CB	LEU	103	81.727	-5.797	81.620	1.00	31.96
ATOM	742	CG	LEU	103	81.982	-4.497	80.858	1.00	32.96

Table_1

ATOM	743	CD1	LEU	103	80.988	-4.403	79.687	1.00	32.28
ATOM	744	CD2	LEU	103	81.795	-3.308	81.794	1.00	33.62
ATOM	745	C	LEU	103	83.338	-5.731	83.565	1.00	30.60
ATOM	746	O	LEU	103	82.654	-5.481	84.546	1.00	31.08
ATOM	747	N	THR	104	84.598	-5.345	83.456	1.00	29.66
ATOM	748	CA	THR	104	85.204	-4.527	84.498	1.00	28.47
ATOM	749	CB	THR	104	86.599	-5.022	84.829	1.00	26.99
ATOM	750	OG1	THR	104	87.402	-4.966	83.649	1.00	25.21
ATOM	751	CG2	THR	104	86.535	-6.448	85.326	1.00	26.25
ATOM	752	C	THR	104	85.294	-3.071	84.060	1.00	28.62
ATOM	753	O	THR	104	85.467	-2.782	82.881	1.00	28.01
ATOM	754	N	ALA	105	85.181	-2.156	85.016	1.00	29.39
ATOM	755	CA	ALA	105	85.248	-0.732	84.723	1.00	29.59
ATOM	756	CB	ALA	105	83.865	-0.202	84.402	1.00	28.39
ATOM	757	C	ALA	105	85.821	-0.003	85.929	1.00	30.02
ATOM	758	O	ALA	105	85.554	-0.374	87.074	1.00	30.16
ATOM	759	N	LYS	106	86.619	1.027	85.671	1.00	30.45
ATOM	760	CA	LYS	106	87.225	1.796	86.746	1.00	30.37
ATOM	761	CB	LYS	106	88.245	2.781	86.181	1.00	31.78
ATOM	762	CG	LYS	106	89.506	2.133	85.643	1.00	33.69
ATOM	763	CD	LYS	106	90.646	3.142	85.576	1.00	36.39
ATOM	764	CE	LYS	106	91.892	2.547	84.930	1.00	38.12
ATOM	765	NZ	LYS	106	92.992	3.549	84.825	1.00	39.55
ATOM	766	C	LYS	106	86.140	2.554	87.481	1.00	29.87

Table_1

ATOM	767	O	LYS	106	86.236	2.788	88.682	1.00	30.81
ATOM	768	N	ALA	107	85.101	2.931	86.747	1.00	29.59
ATOM	769	CA	ALA	107	83.994	3.673	87.328	1.00	28.26
ATOM	770	CB	ALA	107	84.222	5.163	87.145	1.00	29.04
ATOM	771	C	ALA	107	82.679	3.267	86.688	1.00	26.09
ATOM	772	O	ALA	107	82.621	2.995	85.494	1.00	25.20
ATOM	773	N	VAL	108	81.624	3.235	87.493	1.00	24.99
ATOM	774	CA	VAL	108	80.305	2.864	87.003	1.00	24.11
ATOM	775	CB	VAL	108	79.793	1.577	87.669	1.00	23.41
ATOM	776	CG1	VAL	108	78.516	1.137	86.996	1.00	22.33
ATOM	777	CG2	VAL	108	80.843	0.488	87.594	1.00	22.91
ATOM	778	C	VAL	108	79.275	3.944	87.287	1.00	23.60
ATOM	779	O	VAL	108	79.155	4.416	88.416	1.00	23.18
ATOM	780	N	ILE	109	78.528	4.337	86.263	1.00	22.75
ATOM	781	CA	ILE	109	77.486	5.330	86.458	1.00	21.68
ATOM	782	CB	ILE	109	77.513	6.422	85.385	1.00	21.45
ATOM	783	CG2	ILE	109	76.253	7.277	85.499	1.00	20.25
ATOM	784	CG1	ILE	109	78.754	7.300	85.569	1.00	21.17
ATOM	785	CD1	ILE	109	79.203	8.004	84.301	1.00	18.50
ATOM	786	C	ILE	109	76.157	4.604	86.389	1.00	20.08
ATOM	787	O	ILE	109	75.777	4.084	85.344	1.00	19.77
ATOM	788	N	ILE	110	75.457	4.554	87.513	1.00	20.12
ATOM	789	CA	ILE	110	74.172	3.875	87.567	1.00	20.77
ATOM	790	CB	ILE	110	73.874	3.353	88.991	1.00	20.60

Table_1

ATOM	791	CG2	ILE	110	72.496	2.732	89.034	1.00	20.31
ATOM	792	CG1	ILE	110	74.920	2.314	89.403	1.00	20.42
ATOM	793	CD1	ILE	110	74.948	2.020	90.885	1.00	18.68
ATOM	794	C	ILE	110	73.047	4.805	87.144	1.00	21.41
ATOM	795	O	ILE	110	72.793	5.812	87.793	1.00	22.69
ATOM	796	N	ALA	111	72.375	4.466	86.051	1.00	21.20
ATOM	797	CA	ALA	111	71.265	5.270	85.557	1.00	22.53
ATOM	798	CB	ALA	111	71.731	6.173	84.424	1.00	21.48
ATOM	799	C	ALA	111	70.174	4.331	85.067	1.00	23.21
ATOM	800	O	ALA	111	69.837	4.310	83.883	1.00	23.69
ATOM	801	N	THR	112	69.616	3.566	85.996	1.00	23.54
ATOM	802	CA	THR	112	68.588	2.586	85.688	1.00	23.58
ATOM	803	CB	THR	112	68.768	1.376	86.597	1.00	21.68
ATOM	804	OG1	THR	112	69.028	1.824	87.929	1.00	23.06
ATOM	805	CG2	THR	112	69.966	0.567	86.150	1.00	20.25
ATOM	806	C	THR	112	67.158	3.109	85.785	1.00	24.86
ATOM	807	O	THR	112	66.193	2.361	85.614	1.00	25.81
ATOM	808	N	GLY	113	67.027	4.400	86.068	1.00	25.08
ATOM	809	CA	GLY	113	65.712	5.021	86.152	1.00	25.18
ATOM	810	C	GLY	113	64.747	4.474	87.189	1.00	25.55
ATOM	811	O	GLY	113	65.140	3.794	88.132	1.00	26.22
ATOM	812	N	ALA	114	63.469	4.785	86.992	1.00	26.58
ATOM	813	CA	ALA	114	62.414	4.388	87.893	1.00	26.99
ATOM	814	CB	ALA	114	62.101	5.498	88.854	1.00	25.66

Table_1

ATOM	815	C	ALA	114	61.178	4.018	87.092	1.00	28.42
ATOM	816	O	ALA	114	61.162	4.097	85.871	1.00	27.81
ATOM	817	N	GLU	115	60.137	3.618	87.816	1.00	29.66
ATOM	818	CA	GLU	115	58.880	3.227	87.164	1.00	30.98
ATOM	819	CB	GLU	115	58.822	1.701	87.022	1.00	31.61
ATOM	820	CG	GLU	115	59.311	1.165	85.682	1.00	35.48
ATOM	821	CD	GLU	115	59.158	-0.342	85.597	1.00	38.30
ATOM	822	OE1	GLU	115	58.717	-0.944	86.595	1.00	39.63
ATOM	823	OE2	GLU	115	59.472	-0.935	84.545	1.00	40.46
ATOM	824	C	GLU	115	57.684	3.702	87.948	1.00	31.10
ATOM	825	O	GLU	115	57.679	3.632	89.168	1.00	31.20
ATOM	826	N	TYR	116	56.683	4.239	87.276	1.00	31.04
ATOM	827	CA	TYR	116	55.498	4.635	88.002	1.00	31.91
ATOM	828	CB	TYR	116	54.675	5.634	87.207	1.00	32.26
ATOM	829	CG	TYR	116	55.188	7.056	87.274	1.00	32.86
ATOM	830	CD1	TYR	116	55.644	7.695	86.125	1.00	32.76
ATOM	831	CE1	TYR	116	56.086	9.009	86.165	1.00	33.37
ATOM	832	CD2	TYR	116	55.184	7.774	88.470	1.00	32.50
ATOM	833	CE2	TYR	116	55.626	9.096	88.522	1.00	33.81
ATOM	834	CZ	TYR	116	56.071	9.709	87.361	1.00	34.06
ATOM	835	OH	TYR	116	56.494	11.021	87.395	1.00	34.55
ATOM	836	C	TYR	116	54.752	3.315	88.174	1.00	31.65
ATOM	837	O	TYR	116	54.634	2.545	87.218	1.00	31.95
ATOM	838	N	LYS	117	54.273	3.026	89.382	1.00	32.11

Table_1

ATOM	839	CA	LYS	117	53.556	1.772	89.600	1.00	32.07
ATOM	840	CB	LYS	117	53.365	1.499	91.097	1.00	31.34
ATOM	841	CG	LYS	117	54.644	1.146	91.820	1.00	29.66
ATOM	842	CD	LYS	117	54.653	1.712	93.222	1.00	29.96
ATOM	843	CE	LYS	117	55.344	0.766	94.181	1.00	30.25
ATOM	844	NZ	LYS	117	55.148	1.219	95.581	1.00	33.17
ATOM	845	C	LYS	117	52.194	1.738	88.913	1.00	32.88
ATOM	846	O	LYS	117	51.411	2.674	89.027	1.00	33.32
ATOM	847	N	LYS	118	51.916	0.646	88.205	1.00	33.85
ATOM	848	CA	LYS	118	50.643	0.478	87.507	1.00	33.70
ATOM	849	CB	LYS	118	50.815	-0.455	86.308	1.00	33.38
ATOM	850	CG	LYS	118	51.234	0.250	85.038	1.00	34.32
ATOM	851	CD	LYS	118	52.671	0.704	85.131	1.00	34.53
ATOM	852	CE	LYS	118	52.862	2.046	84.457	1.00	33.28
ATOM	853	NZ	LYS	118	54.287	2.455	84.533	1.00	35.02
ATOM	854	C	LYS	118	49.641	-0.131	88.472	1.00	34.21
ATOM	855	O	LYS	118	50.032	-0.804	89.421	1.00	33.90
ATOM	856	N	ILE	119	48.353	0.112	88.238	1.00	35.54
ATOM	857	CA	ILE	119	47.304	-0.431	89.100	1.00	36.16
ATOM	858	CB	ILE	119	46.046	0.462	89.115	1.00	37.86
ATOM	859	CG2	ILE	119	46.197	1.583	90.126	1.00	38.57
ATOM	860	CG1	ILE	119	45.808	1.028	87.719	1.00	38.92
ATOM	861	CD1	ILE	119	44.534	1.810	87.603	1.00	41.54
ATOM	862	C	ILE	119	46.889	-1.798	88.575	1.00	36.11

Table_1

ATOM	863	O	ILE	119	46.199	-2.555	89.261	1.00	36.85
ATOM	864	N	GLY	120	47.305	-2.100	87.348	1.00	34.98
ATOM	865	CA	GLY	120	46.976	-3.378	86.743	1.00	33.65
ATOM	866	C	GLY	120	45.490	-3.563	86.513	1.00	32.82
ATOM	867	O	GLY	120	44.920	-4.583	86.889	1.00	34.41
ATOM	868	N	VAL	121	44.866	-2.570	85.891	1.00	31.32
ATOM	869	CA	VAL	121	43.438	-2.596	85.597	1.00	29.82
ATOM	870	CB	VAL	121	42.761	-1.311	86.144	1.00	30.30
ATOM	871	CG1	VAL	121	41.308	-1.278	85.788	1.00	31.72
ATOM	872	CG2	VAL	121	42.903	-1.259	87.653	1.00	31.58
ATOM	873	C	VAL	121	43.268	-2.684	84.077	1.00	28.80
ATOM	874	O	VAL	121	44.118	-2.196	83.324	1.00	29.47
ATOM	875	N	PRO	122	42.189	-3.317	83.598	1.00	26.92
ATOM	876	CD	PRO	122	41.089	-3.982	84.331	1.00	26.00
ATOM	877	CA	PRO	122	41.999	-3.421	82.151	1.00	25.55
ATOM	878	CB	PRO	122	40.730	-4.255	81.995	1.00	23.64
ATOM	879	CG	PRO	122	40.549	-4.934	83.314	1.00	23.64
ATOM	880	C	PRO	122	41.873	-2.056	81.482	1.00	26.07
ATOM	881	O	PRO	122	41.137	-1.192	81.953	1.00	25.30
ATOM	882	N	GLY	123	42.596	-1.873	80.386	1.00	27.54
ATOM	883	CA	GLY	123	42.551	-0.611	79.674	1.00	27.10
ATOM	884	C	GLY	123	43.727	0.284	80.008	1.00	27.86
ATOM	885	O	GLY	123	44.126	1.114	79.195	1.00	27.11
ATOM	886	N	GLU	124	44.287	0.111	81.202	1.00	28.65

Table_1

ATOM	887	CA	GLU	124	45.417	0.920	81.644	1.00	31.13
ATOM	888	CB	GLU	124	45.779	0.579	83.093	1.00	31.15
ATOM	889	CG	GLU	124	46.779	1.548	83.718	1.00	33.45
ATOM	890	CD	GLU	124	47.384	1.036	85.017	1.00	35.04
ATOM	891	OE1	GLU	124	47.387	-0.197	85.242	1.00	37.85
ATOM	892	OE2	GLU	124	47.862	1.870	85.819	1.00	33.96
ATOM	893	C	GLU	124	46.658	0.763	80.771	1.00	32.00
ATOM	894	O	GLU	124	47.496	1.660	80.703	1.00	32.12
ATOM	895	N	GLN	125	46.780	-0.372	80.098	1.00	33.67
ATOM	896	CA	GLN	125	47.941	-0.606	79.259	1.00	34.83
ATOM	897	CB	GLN	125	48.311	-2.087	79.284	1.00	39.75
ATOM	898	CG	GLN	125	48.798	-2.568	80.640	1.00	47.03
ATOM	899	CD	GLN	125	49.238	-4.026	80.634	1.00	50.78
ATOM	900	OE1	GLN	125	49.668	-4.562	81.661	1.00	53.33
ATOM	901	NE2	GLN	125	49.133	-4.675	79.476	1.00	51.82
ATOM	902	C	GLN	125	47.728	-0.155	77.826	1.00	33.91
ATOM	903	O	GLN	125	48.573	0.534	77.257	1.00	33.69
ATOM	904	N	GLU	126	46.595	-0.535	77.247	1.00	33.37
ATOM	905	CA	GLU	126	46.290	-0.179	75.867	1.00	33.00
ATOM	906	CB	GLU	126	45.091	-0.993	75.374	1.00	33.37
ATOM	907	CG	GLU	126	45.033	-2.401	75.945	1.00	35.84
ATOM	908	CD	GLU	126	43.951	-3.250	75.313	1.00	36.03
ATOM	909	OE1	GLU	126	44.245	-4.402	74.929	1.00	36.64
ATOM	910	OE2	GLU	126	42.807	-2.765	75.202	1.00	37.21

Table_1

ATOM	911	C	GLU	126	46.017	1.309	75.667	1.00	31.87
ATOM	912	O	GLU	126	46.183	1.834	74.566	1.00	31.82
ATOM	913	N	LEU	127	45.612	1.996	76.728	1.00	29.41
ATOM	914	CA	LEU	127	45.312	3.413	76.614	1.00	28.17
ATOM	915	CB	LEU	127	43.983	3.712	77.300	1.00	27.86
ATOM	916	CG	LEU	127	42.803	3.077	76.561	1.00	27.03
ATOM	917	CD1	LEU	127	41.544	3.180	77.405	1.00	26.06
ATOM	918	CD2	LEU	127	42.620	3.766	75.216	1.00	26.36
ATOM	919	C	LEU	127	46.387	4.351	77.139	1.00	27.00
ATOM	920	O	LEU	127	46.239	5.567	77.059	1.00	27.24
ATOM	921	N	GLY	128	47.467	3.797	77.677	1.00	26.15
ATOM	922	CA	GLY	128	48.534	4.644	78.171	1.00	26.45
ATOM	923	C	GLY	128	48.961	5.542	77.031	1.00	27.03
ATOM	924	O	GLY	128	49.192	5.065	75.923	1.00	27.93
ATOM	925	N	GLY	129	49.055	6.840	77.283	1.00	27.31
ATOM	926	CA	GLY	129	49.442	7.751	76.224	1.00	27.69
ATOM	927	C	GLY	129	48.255	8.099	75.346	1.00	28.08
ATOM	928	O	GLY	129	48.360	8.935	74.452	1.00	28.10
ATOM	929	N	ARG	130	47.123	7.451	75.600	1.00	29.28
ATOM	930	CA	ARG	130	45.899	7.694	74.843	1.00	30.50
ATOM	931	CB	ARG	130	45.433	6.411	74.148	1.00	33.23
ATOM	932	CG	ARG	130	46.099	6.151	72.798	1.00	37.99
ATOM	933	CD	ARG	130	46.147	4.658	72.466	1.00	42.01
ATOM	934	NE	ARG	130	45.030	4.240	71.619	1.00	46.67

Table_1

ATOM	935	CZ	ARG	130	44.479	3.027	71.640	1.00	49.09
ATOM	936	NH1	ARG	130	44.939	2.098	72.468	1.00	49.41
ATOM	937	NH2	ARG	130	43.461	2.742	70.834	1.00	49.37
ATOM	938	C	ARG	130	44.815	8.186	75.795	1.00	30.01
ATOM	939	O	ARG	130	43.623	8.115	75.489	1.00	29.66
ATOM	940	N	GLY	131	45.237	8.680	76.955	1.00	29.10
ATOM	941	CA	GLY	131	44.290	9.184	77.933	1.00	27.81
ATOM	942	C	GLY	131	44.676	8.846	79.358	1.00	26.70
ATOM	943	O	GLY	131	44.142	9.410	80.311	1.00	26.32
ATOM	944	N	VAL	132	45.617	7.922	79.502	1.00	26.00
ATOM	945	CA	VAL	132	46.077	7.496	80.814	1.00	25.67
ATOM	946	CB	VAL	132	46.032	5.960	80.938	1.00	24.98
ATOM	947	CG1	VAL	132	46.562	5.533	82.290	1.00	25.11
ATOM	948	CG2	VAL	132	44.608	5.467	80.741	1.00	23.66
ATOM	949	C	VAL	132	47.506	7.965	81.042	1.00	26.61
ATOM	950	O	VAL	132	48.380	7.736	80.205	1.00	26.37
ATOM	951	N	SER	133	47.742	8.617	82.177	1.00	26.69
ATOM	952	CA	SER	133	49.068	9.118	82.498	1.00	26.92
ATOM	953	CB	SER	133	49.195	10.574	82.049	1.00	29.66
ATOM	954	OG	SER	133	50.414	11.144	82.499	1.00	34.54
ATOM	955	C	SER	133	49.374	9.007	83.988	1.00	26.29
ATOM	956	O	SER	133	48.513	8.646	84.787	1.00	25.42
ATOM	957	N	TYR	134	50.611	9.324	84.353	1.00	26.35
ATOM	958	CA	TYR	134	51.053	9.248	85.739	1.00	25.54

Table_1

ATOM	959	CB	TYR	134	51.960	8.027	85.930	1.00	26.18
ATOM	960	CG	TYR	134	51.345	6.723	85.469	1.00	27.22
ATOM	961	CD1	TYR	134	51.275	6.398	84.112	1.00	27.58
ATOM	962	CE1	TYR	134	50.661	5.215	83.683	1.00	25.94
ATOM	963	CD2	TYR	134	50.795	5.830	86.387	1.00	27.33
ATOM	964	CE2	TYR	134	50.184	4.651	85.970	1.00	26.26
ATOM	965	CZ	TYR	134	50.119	4.352	84.623	1.00	26.37
ATOM	966	OH	TYR	134	49.500	3.192	84.230	1.00	27.08
ATOM	967	C	TYR	134	51.825	10.498	86.131	1.00	24.81
ATOM	968	O	TYR	134	52.291	10.613	87.257	1.00	24.69
ATOM	969	N	CYS	135	51.955	11.434	85.200	1.00	26.08
ATOM	970	CA	CYS	135	52.704	12.658	85.456	1.00	27.29
ATOM	971	CB	CYS	135	54.111	12.493	84.892	1.00	29.45
ATOM	972	SG	CYS	135	55.282	13.753	85.387	1.00	31.76
ATOM	973	C	CYS	135	52.046	13.896	84.849	1.00	27.69
ATOM	974	O	CYS	135	52.085	14.099	83.635	1.00	28.04
ATOM	975	N	ALA	136	51.451	14.724	85.701	1.00	28.08
ATOM	976	CA	ALA	136	50.778	15.943	85.255	1.00	28.76
ATOM	977	CB	ALA	136	50.024	16.582	86.420	1.00	28.31
ATOM	978	C	ALA	136	51.755	16.949	84.654	1.00	28.23
ATOM	979	O	ALA	136	51.444	17.613	83.667	1.00	27.88
ATOM	980	N	VAL	137	52.929	17.070	85.262	1.00	28.06
ATOM	981	CA	VAL	137	53.949	17.989	84.768	1.00	28.86
ATOM	982	CB	VAL	137	55.229	17.919	85.636	1.00	28.47

Table_1

ATOM	983	CG1	VAL	137	56.392	18.589	84.921	1.00	27.53
ATOM	984	CG2	VAL	137	54.978	18.588	86.970	1.00	28.15
ATOM	985	C	VAL	137	54.302	17.594	83.339	1.00	28.90
ATOM	986	O	VAL	137	54.593	18.439	82.487	1.00	28.99
ATOM	987	N	CYS	138	54.263	16.292	83.093	1.00	29.03
ATOM	988	CA	CYS	138	54.579	15.745	81.788	1.00	27.53
ATOM	989	CB	CYS	138	54.672	14.221	81.874	1.00	27.04
ATOM	990	SG	CYS	138	56.142	13.638	82.732	1.00	27.60
ATOM	991	C	CYS	138	53.549	16.133	80.746	1.00	26.20
ATOM	992	O	CYS	138	53.837	16.916	79.846	1.00	26.01
ATOM	993	N	ASP	139	52.339	15.601	80.876	1.00	26.34
ATOM	994	CA	ASP	139	51.298	15.882	79.894	1.00	26.40
ATOM	995	CB	ASP	139	50.957	14.601	79.134	1.00	27.89
ATOM	996	CG	ASP	139	50.649	13.438	80.057	1.00	29.26
ATOM	997	OD1	ASP	139	50.567	13.648	81.287	1.00	29.34
ATOM	998	OD2	ASP	139	50.491	12.309	79.546	1.00	29.90
ATOM	999	C	ASP	139	50.006	16.506	80.403	1.00	25.96
ATOM	1000	O	ASP	139	48.988	16.452	79.721	1.00	24.99
ATOM	1001	N	GLY	140	50.027	17.094	81.589	1.00	25.86
ATOM	1002	CA	GLY	140	48.811	17.707	82.081	1.00	26.65
ATOM	1003	C	GLY	140	48.362	18.796	81.122	1.00	27.41
ATOM	1004	O	GLY	140	47.171	19.065	80.975	1.00	27.94
ATOM	1005	N	ALA	141	49.329	19.417	80.455	1.00	27.84
ATOM	1006	CA	ALA	141	49.052	20.492	79.513	1.00	27.58

Table_1

ATOM	1007	CB	ALA	141	50.357	21.091	79.023	1.00	25.75
ATOM	1008	C	ALA	141	48.219	20.035	78.326	1.00	29.10
ATOM	1009	O	ALA	141	47.640	20.859	77.617	1.00	29.24
ATOM	1010	N	PHE	142	48.155	18.725	78.112	1.00	30.48
ATOM	1011	CA	PHE	142	47.402	18.173	76.991	1.00	31.51
ATOM	1012	CB	PHE	142	47.937	16.786	76.624	1.00	33.66
ATOM	1013	CG	PHE	142	49.373	16.780	76.166	1.00	37.55
ATOM	1014	CD1	PHE	142	49.998	17.949	75.738	1.00	37.76
ATOM	1015	CD2	PHE	142	50.101	15.594	76.156	1.00	39.09
ATOM	1016	CE1	PHE	142	51.327	17.939	75.317	1.00	37.65
ATOM	1017	CE2	PHE	142	51.430	15.573	75.737	1.00	39.69
ATOM	1018	CZ	PHE	142	52.043	16.750	75.313	1.00	38.91
ATOM	1019	C	PHE	142	45.912	18.058	77.270	1.00	30.86
ATOM	1020	O	PHE	142	45.122	17.815	76.358	1.00	31.13
ATOM	1021	N	PHE	143	45.521	18.235	78.525	1.00	30.14
ATOM	1022	CA	PHE	143	44.117	18.109	78.874	1.00	30.68
ATOM	1023	CB	PHE	143	43.972	17.093	80.009	1.00	29.64
ATOM	1024	CG	PHE	143	44.467	15.718	79.652	1.00	26.03
ATOM	1025	CD1	PHE	143	45.766	15.326	79.966	1.00	23.90
ATOM	1026	CD2	PHE	143	43.645	14.829	78.975	1.00	24.44
ATOM	1027	CE1	PHE	143	46.232	14.066	79.615	1.00	22.92
ATOM	1028	CE2	PHE	143	44.102	13.567	78.620	1.00	24.40
ATOM	1029	CZ	PHE	143	45.398	13.187	78.937	1.00	23.38
ATOM	1030	C	PHE	143	43.431	19.422	79.231	1.00	31.47

Table_1

ATOM	1031	O	PHE	143	42.759	19.527	80.256	1.00	31.23
ATOM	1032	N	LYS	144	43.599	20.420	78.371	1.00	32.89
ATOM	1033	CA	LYS	144	42.978	21.719	78.581	1.00	33.79
ATOM	1034	CB	LYS	144	43.651	22.774	77.698	1.00	35.87
ATOM	1035	CG	LYS	144	43.066	24.168	77.845	1.00	38.75
ATOM	1036	CD	LYS	144	43.676	25.130	76.844	1.00	41.57
ATOM	1037	CE	LYS	144	42.933	25.085	75.517	1.00	44.43
ATOM	1038	NZ	LYS	144	42.478	26.437	75.077	1.00	45.15
ATOM	1039	C	LYS	144	41.502	21.598	78.214	1.00	33.37
ATOM	1040	O	LYS	144	41.170	21.136	77.123	1.00	32.12
ATOM	1041	N	ASN	145	40.626	22.011	79.128	1.00	33.44
ATOM	1042	CA	ASN	145	39.178	21.949	78.921	1.00	33.90
ATOM	1043	CB	ASN	145	38.783	22.598	77.596	1.00	34.53
ATOM	1044	CG	ASN	145	39.300	24.009	77.460	1.00	34.92
ATOM	1045	OD1	ASN	145	39.626	24.455	76.358	1.00	36.83
ATOM	1046	ND2	ASN	145	39.379	24.725	78.577	1.00	33.71
ATOM	1047	C	ASN	145	38.710	20.510	78.909	1.00	33.81
ATOM	1048	O	ASN	145	37.777	20.157	78.187	1.00	34.34
ATOM	1049	N	LYS	146	39.354	19.682	79.721	1.00	34.46
ATOM	1050	CA	LYS	146	39.018	18.268	79.783	1.00	33.93
ATOM	1051	CB	LYS	146	40.270	17.430	79.528	1.00	33.58
ATOM	1052	CG	LYS	146	40.668	17.359	78.073	1.00	32.61
ATOM	1053	CD	LYS	146	39.544	16.780	77.235	1.00	34.01
ATOM	1054	CE	LYS	146	39.505	17.411	75.853	1.00	35.00

Table_1

ATOM	1055	NZ	LYS	146	38.282	17.025	75.094	1.00	37.22
ATOM	1056	C	LYS	146	38.402	17.841	81.100	1.00	33.38
ATOM	1057	O	LYS	146	38.447	18.566	82.092	1.00	33.27
ATOM	1058	N	ARG	147	37.821	16.648	81.088	1.00	33.29
ATOM	1059	CA	ARG	147	37.213	16.070	82.272	1.00	33.17
ATOM	1060	CB	ARG	147	35.854	15.472	81.921	1.00	33.28
ATOM	1061	CG	ARG	147	34.891	15.430	83.080	1.00	34.40
ATOM	1062	CD	ARG	147	34.864	14.051	83.712	1.00	35.64
ATOM	1063	NE	ARG	147	34.161	14.066	84.988	1.00	36.48
ATOM	1064	CZ	ARG	147	34.733	14.340	86.155	1.00	36.57
ATOM	1065	NH1	ARG	147	36.027	14.619	86.222	1.00	35.41
ATOM	1066	NH2	ARG	147	34.001	14.347	87.256	1.00	38.19
ATOM	1067	C	ARG	147	38.177	14.976	82.712	1.00	32.30
ATOM	1068	O	ARG	147	38.324	13.968	82.029	1.00	31.63
ATOM	1069	N	LEU	148	38.850	15.184	83.839	1.00	31.87
ATOM	1070	CA	LEU	148	39.815	14.210	84.329	1.00	30.05
ATOM	1071	CB	LEU	148	41.169	14.876	84.576	1.00	29.76
ATOM	1072	CG	LEU	148	41.948	15.490	83.414	1.00	29.77
ATOM	1073	CD1	LEU	148	43.294	15.958	83.937	1.00	29.86
ATOM	1074	CD2	LEU	148	42.136	14.478	82.291	1.00	28.18
ATOM	1075	C	LEU	148	39.406	13.509	85.610	1.00	29.32
ATOM	1076	O	LEU	148	38.552	13.983	86.358	1.00	29.24
ATOM	1077	N	PHE	149	40.044	12.370	85.845	1.00	27.99
ATOM	1078	CA	PHE	149	39.826	11.576	87.040	1.00	26.36

Table_1

ATOM	1079	CB	PHE	149	39.161	10.241	86.691	1.00	27.29
ATOM	1080	CG	PHE	149	37.657	10.295	86.687	1.00	27.41
ATOM	1081	CD1	PHE	149	36.960	10.420	85.494	1.00	26.83
ATOM	1082	CD2	PHE	149	36.937	10.225	87.876	1.00	27.56
ATOM	1083	CE1	PHE	149	35.570	10.481	85.477	1.00	25.81
ATOM	1084	CE2	PHE	149	35.545	10.285	87.868	1.00	27.00
ATOM	1085	CZ	PHE	149	34.862	10.412	86.663	1.00	24.91
ATOM	1086	C	PHE	149	41.226	11.341	87.592	1.00	24.78
ATOM	1087	O	PHE	149	42.173	11.156	86.833	1.00	24.27
ATOM	1088	N	VAL	150	41.356	11.377	88.910	1.00	23.53
ATOM	1089	CA	VAL	150	42.639	11.172	89.554	1.00	23.39
ATOM	1090	CB	VAL	150	43.089	12.440	90.313	1.00	23.77
ATOM	1091	CG1	VAL	150	44.259	12.124	91.221	1.00	22.98
ATOM	1092	CG2	VAL	150	43.475	13.520	89.327	1.00	23.09
ATOM	1093	C	VAL	150	42.474	10.026	90.532	1.00	23.77
ATOM	1094	O	VAL	150	41.600	10.063	91.397	1.00	21.57
ATOM	1095	N	ILE	151	43.316	9.008	90.386	1.00	25.39
ATOM	1096	CA	ILE	151	43.256	7.840	91.251	1.00	25.35
ATOM	1097	CB	ILE	151	43.419	6.550	90.448	1.00	23.69
ATOM	1098	CG2	ILE	151	43.085	5.358	91.320	1.00	22.88
ATOM	1099	CG1	ILE	151	42.500	6.587	89.229	1.00	23.19
ATOM	1100	CD1	ILE	151	41.031	6.764	89.569	1.00	20.06
ATOM	1101	C	ILE	151	44.309	7.857	92.340	1.00	26.16
ATOM	1102	O	ILE	151	45.503	7.792	92.065	1.00	27.40

Table_1

ATOM	1103	N	GLY	152	43.845	7.931	93.581	1.00	27.47
ATOM	1104	CA	GLY	152	44.741	7.960	94.718	1.00	28.72
ATOM	1105	C	GLY	152	44.217	8.900	95.785	1.00	30.01
ATOM	1106	O	GLY	152	43.183	9.542	95.606	1.00	30.52
ATOM	1107	N	GLY	153	44.931	8.977	96.901	1.00	31.45
ATOM	1108	CA	GLY	153	44.525	9.848	97.989	1.00	31.69
ATOM	1109	C	GLY	153	45.741	10.426	98.679	1.00	32.78
ATOM	1110	O	GLY	153	45.623	11.156	99.663	1.00	33.92
ATOM	1111	N	GLY	154	46.916	10.093	98.156	1.00	33.67
ATOM	1112	CA	GLY	154	48.152	10.591	98.725	1.00	34.70
ATOM	1113	C	GLY	154	48.476	11.992	98.243	1.00	35.87
ATOM	1114	O	GLY	154	47.853	12.501	97.308	1.00	35.43
ATOM	1115	N	ASP	155	49.457	12.615	98.887	1.00	36.76
ATOM	1116	CA	ASP	155	49.876	13.968	98.544	1.00	37.40
ATOM	1117	CB	ASP	155	51.219	14.285	99.212	1.00	39.26
ATOM	1118	CG	ASP	155	51.132	14.306	100.731	1.00	41.42
ATOM	1119	OD1	ASP	155	51.906	15.062	101.355	1.00	42.70
ATOM	1120	OD2	ASP	155	50.299	13.570	101.304	1.00	42.50
ATOM	1121	C	ASP	155	50.002	14.155	97.035	1.00	37.37
ATOM	1122	O	ASP	155	49.570	15.172	96.489	1.00	37.50
ATOM	1123	N	SER	156	50.583	13.164	96.365	1.00	36.29
ATOM	1124	CA	SER	156	50.783	13.224	94.921	1.00	35.54
ATOM	1125	CB	SER	156	51.660	12.059	94.469	1.00	35.37
ATOM	1126	OG	SER	156	52.985	12.226	94.942	1.00	40.15

Table_1

ATOM	1127	C	SER	156	49.495	13.237	94.111	1.00	34.65
ATOM	1128	O	SER	156	49.420	13.879	93.065	1.00	33.89
ATOM	1129	N	ALA	157	48.481	12.523	94.582	1.00	34.59
ATOM	1130	CA	ALA	157	47.211	12.485	93.870	1.00	34.61
ATOM	1131	CB	ALA	157	46.331	11.383	94.427	1.00	33.59
ATOM	1132	C	ALA	157	46.523	13.829	94.027	1.00	35.03
ATOM	1133	O	ALA	157	46.015	14.405	93.062	1.00	35.25
ATOM	1134	N	VAL	158	46.516	14.320	95.260	1.00	35.74
ATOM	1135	CA	VAL	158	45.901	15.595	95.577	1.00	37.22
ATOM	1136	CB	VAL	158	45.820	15.787	97.106	1.00	38.26
ATOM	1137	CG1	VAL	158	45.323	17.182	97.436	1.00	39.93
ATOM	1138	CG2	VAL	158	44.891	14.737	97.705	1.00	39.02
ATOM	1139	C	VAL	158	46.709	16.730	94.954	1.00	37.55
ATOM	1140	O	VAL	158	46.165	17.585	94.255	1.00	37.95
ATOM	1141	N	GLU	159	48.013	16.726	95.203	1.00	37.44
ATOM	1142	CA	GLU	159	48.905	17.747	94.668	1.00	37.04
ATOM	1143	CB	GLU	159	50.346	17.392	94.987	1.00	38.60
ATOM	1144	CG	GLU	159	50.898	18.083	96.192	1.00	41.33
ATOM	1145	CD	GLU	159	52.369	17.833	96.325	1.00	42.91
ATOM	1146	OE1	GLU	159	53.073	18.698	96.884	1.00	46.14
ATOM	1147	OE2	GLU	159	52.817	16.765	95.857	1.00	43.06
ATOM	1148	C	GLU	159	48.775	17.888	93.162	1.00	35.94
ATOM	1149	O	GLU	159	48.514	18.972	92.639	1.00	36.67
ATOM	1150	N	GLU	160	48.990	16.782	92.464	1.00	34.59

Table_1

ATOM	1151	CA	GLU	160	48.907	16.769	91.018	1.00	33.54
ATOM	1152	CB	GLU	160	49.503	15.473	90.483	1.00	34.71
ATOM	1153	CG	GLU	160	50.975	15.305	90.819	1.00	36.13
ATOM	1154	CD	GLU	160	51.792	14.852	89.624	1.00	37.31
ATOM	1155	OE1	GLU	160	51.187	14.425	88.619	1.00	37.19
ATOM	1156	OE2	GLU	160	53.038	14.922	89.686	1.00	38.47
ATOM	1157	C	GLU	160	47.459	16.910	90.575	1.00	32.89
ATOM	1158	O	GLU	160	47.177	17.141	89.401	1.00	32.93
ATOM	1159	N	GLY	161	46.541	16.763	91.522	1.00	31.89
ATOM	1160	CA	GLY	161	45.134	16.903	91.202	1.00	30.97
ATOM	1161	C	GLY	161	44.762	18.373	91.141	1.00	30.17
ATOM	1162	O	GLY	161	43.897	18.782	90.366	1.00	28.85
ATOM	1163	N	THR	162	45.432	19.170	91.965	1.00	30.75
ATOM	1164	CA	THR	162	45.188	20.604	92.024	1.00	31.71
ATOM	1165	CB	THR	162	45.681	21.190	93.361	1.00	31.85
ATOM	1166	OG1	THR	162	45.519	20.216	94.398	1.00	32.82
ATOM	1167	CG2	THR	162	44.883	22.426	93.726	1.00	34.17
ATOM	1168	C	THR	162	45.913	21.303	90.883	1.00	31.58
ATOM	1169	O	THR	162	45.583	22.429	90.519	1.00	31.48
ATOM	1170	N	PHE	163	46.902	20.621	90.321	1.00	31.81
ATOM	1171	CA	PHE	163	47.685	21.166	89.224	1.00	32.50
ATOM	1172	CB	PHE	163	49.035	20.445	89.157	1.00	33.94
ATOM	1173	CG	PHE	163	49.899	20.867	88.002	1.00	36.82
ATOM	1174	CD1	PHE	163	50.837	21.877	88.155	1.00	38.64

Table_1

ATOM	1175	CD2	PHE	163	49.772	20.257	86.759	1.00	38.36
ATOM	1176	CE1	PHE	163	51.647	22.265	87.091	1.00	40.14
ATOM	1177	CE2	PHE	163	50.577	20.638	85.692	1.00	38.63
ATOM	1178	CZ	PHE	163	51.512	21.647	85.857	1.00	39.43
ATOM	1179	C	PHE	163	46.952	21.023	87.890	1.00	32.19
ATOM	1180	O	PHE	163	46.982	21.916	87.044	1.00	30.85
ATOM	1181	N	LEU	164	46.287	19.894	87.704	1.00	32.13
ATOM	1182	CA	LEU	164	45.577	19.652	86.462	1.00	32.24
ATOM	1183	CB	LEU	164	45.153	18.182	86.394	1.00	31.26
ATOM	1184	CG	LEU	164	46.347	17.220	86.350	1.00	31.18
ATOM	1185	CD1	LEU	164	45.968	15.884	86.964	1.00	29.42
ATOM	1186	CD2	LEU	164	46.802	17.037	84.911	1.00	30.94
ATOM	1187	C	LEU	164	44.376	20.577	86.287	1.00	32.03
ATOM	1188	O	LEU	164	43.868	20.741	85.181	1.00	32.20
ATOM	1189	N	THR	165	43.926	21.190	87.373	1.00	32.81
ATOM	1190	CA	THR	165	42.788	22.094	87.288	1.00	33.13
ATOM	1191	CB	THR	165	42.262	22.449	88.675	1.00	32.43
ATOM	1192	OG1	THR	165	43.353	22.859	89.508	1.00	31.37
ATOM	1193	CG2	THR	165	41.570	21.243	89.295	1.00	30.56
ATOM	1194	C	THR	165	43.197	23.369	86.561	1.00	34.03
ATOM	1195	O	THR	165	42.359	24.185	86.191	1.00	33.11
ATOM	1196	N	LYS	166	44.495	23.544	86.358	1.00	34.17
ATOM	1197	CA	LYS	166	44.961	24.715	85.642	1.00	34.79
ATOM	1198	CB	LYS	166	46.465	24.897	85.830	1.00	35.88

Table_1

ATOM	1199	CG	LYS	166	46.953	24.552	87.216	1.00	37.89
ATOM	1200	CD	LYS	166	48.360	25.051	87.445	1.00	40.26
ATOM	1201	CE	LYS	166	48.425	25.894	88.707	1.00	41.37
ATOM	1202	NZ	LYS	166	47.288	26.851	88.791	1.00	43.18
ATOM	1203	C	LYS	166	44.650	24.493	84.170	1.00	34.60
ATOM	1204	O	LYS	166	44.638	25.438	83.376	1.00	35.26
ATOM	1205	N	PHE	167	44.383	23.236	83.815	1.00	33.70
ATOM	1206	CA	PHE	167	44.085	22.867	82.432	1.00	31.89
ATOM	1207	CB	PHE	167	45.150	21.894	81.922	1.00	30.80
ATOM	1208	CG	PHE	167	46.554	22.256	82.329	1.00	31.24
ATOM	1209	CD1	PHE	167	47.290	21.419	83.163	1.00	31.31
ATOM	1210	CD2	PHE	167	47.152	23.420	81.857	1.00	32.23
ATOM	1211	CE1	PHE	167	48.604	21.739	83.520	1.00	32.44
ATOM	1212	CE2	PHE	167	48.466	23.749	82.209	1.00	32.09
ATOM	1213	CZ	PHE	167	49.192	22.907	83.040	1.00	32.48
ATOM	1214	C	PHE	167	42.700	22.252	82.198	1.00	32.22
ATOM	1215	O	PHE	167	42.012	22.618	81.240	1.00	31.64
ATOM	1216	N	ALA	168	42.297	21.323	83.064	1.00	32.49
ATOM	1217	CA	ALA	168	41.015	20.635	82.925	1.00	32.10
ATOM	1218	CB	ALA	168	41.093	19.250	83.593	1.00	31.67
ATOM	1219	C	ALA	168	39.807	21.392	83.465	1.00	32.36
ATOM	1220	O	ALA	168	39.926	22.235	84.362	1.00	32.22
ATOM	1221	N	ASP	169	38.642	21.083	82.913	1.00	32.57
ATOM	1222	CA	ASP	169	37.420	21.726	83.350	1.00	32.98

Table_1

ATOM	1223	CB	ASP	169	36.336	21.558	82.266	1.00	33.63
ATOM	1224	CG	ASP	169	36.478	22.575	81.150	1.00	34.28
ATOM	1225	OD1	ASP	169	37.019	23.661	81.430	1.00	37.29
ATOM	1226	OD2	ASP	169	36.090	22.290	79.995	1.00	35.61
ATOM	1227	C	ASP	169	36.940	21.152	84.673	1.00	33.04
ATOM	1228	O	ASP	169	36.451	21.870	85.544	1.00	33.39
ATOM	1229	N	LYS	170	37.131	19.851	84.820	1.00	33.59
ATOM	1230	CA	LYS	170	36.685	19.159	86.009	1.00	34.30
ATOM	1231	CB	LYS	170	35.350	18.460	85.719	1.00	36.23
ATOM	1232	CG	LYS	170	34.151	19.235	86.169	1.00	39.47
ATOM	1233	CD	LYS	170	32.990	18.307	86.496	1.00	42.74
ATOM	1234	CE	LYS	170	31.636	19.048	86.333	1.00	46.53
ATOM	1235	NZ	LYS	170	30.387	18.278	86.716	1.00	48.91
ATOM	1236	C	LYS	170	37.728	18.127	86.385	1.00	33.82
ATOM	1237	O	LYS	170	38.385	17.563	85.512	1.00	33.31
ATOM	1238	N	VAL	171	37.961	17.956	87.681	1.00	33.27
ATOM	1239	CA	VAL	171	38.900	16.947	88.151	1.00	32.80
ATOM	1240	CB	VAL	171	40.305	17.530	88.481	1.00	32.63
ATOM	1241	CG1	VAL	171	41.218	16.419	89.046	1.00	32.73
ATOM	1242	CG2	VAL	171	40.941	18.084	87.212	1.00	32.98
ATOM	1243	C	VAL	171	38.278	16.310	89.372	1.00	32.76
ATOM	1244	O	VAL	171	37.883	16.970	90.320	1.00	32.95
ATOM	1245	N	THR	172	38.144	15.001	89.276	1.00	32.28
ATOM	1246	CA	THR	172	37.556	14.198	90.323	1.00	31.56

Table_1

ATOM	1247	CB	THR	172	36.451	13.316	89.711	1.00	31.88
ATOM	1248	OG1	THR	172	35.538	14.157	89.000	1.00	32.82
ATOM	1249	CG2	THR	172	35.731	12.509	90.755	1.00	31.36
ATOM	1250	C	THR	172	38.636	13.295	90.880	1.00	30.72
ATOM	1251	O	THR	172	39.444	12.758	90.133	1.00	31.27
ATOM	1252	N	ILE	173	38.660	13.169	92.200	1.00	29.39
ATOM	1253	CA	ILE	173	39.644	12.319	92.838	1.00	28.92
ATOM	1254	CB	ILE	173	40.458	13.081	93.906	1.00	28.54
ATOM	1255	CG2	ILE	173	41.402	12.124	94.594	1.00	28.34
ATOM	1256	CG1	ILE	173	41.326	14.138	93.216	1.00	28.36
ATOM	1257	CD1	ILE	173	41.498	15.432	94.010	1.00	28.48
ATOM	1258	C	ILE	173	38.947	11.124	93.443	1.00	29.29
ATOM	1259	O	ILE	173	38.036	11.259	94.257	1.00	28.48
ATOM	1260	N	VAL	174	39.359	9.952	92.975	1.00	28.74
ATOM	1261	CA	VAL	174	38.817	8.676	93.421	1.00	27.58
ATOM	1262	CB	VAL	174	38.698	7.694	92.253	1.00	25.30
ATOM	1263	CG1	VAL	174	37.868	6.511	92.670	1.00	25.21
ATOM	1264	CG2	VAL	174	38.075	8.382	91.052	1.00	23.35
ATOM	1265	C	VAL	174	39.731	8.060	94.472	1.00	28.47
ATOM	1266	O	VAL	174	40.897	7.772	94.199	1.00	28.96
ATOM	1267	N	HIS	175	39.203	7.866	95.675	1.00	29.18
ATOM	1268	CA	HIS	175	39.986	7.274	96.752	1.00	31.66
ATOM	1269	CB	HIS	175	40.170	8.268	97.894	1.00	31.96
ATOM	1270	CG	HIS	175	41.248	7.875	98.854	1.00	32.28

Table_1

ATOM	1271	CD2	HIS	175	41.420	8.168	100.167	1.00	31.88
ATOM	1272	ND1	HIS	175	42.312	7.083	98.491	1.00	32.61
ATOM	1273	CE1	HIS	175	43.099	6.901	99.539	1.00	33.44
ATOM	1274	NE2	HIS	175	42.581	7.547	100.565	1.00	33.07
ATOM	1275	C	HIS	175	39.354	5.996	97.293	1.00	33.23
ATOM	1276	O	HIS	175	38.133	5.897	97.422	1.00	33.64
ATOM	1277	N	ARG	176	40.197	5.023	97.622	1.00	35.44
ATOM	1278	CA	ARG	176	39.723	3.743	98.131	1.00	37.32
ATOM	1279	CB	ARG	176	40.835	2.691	98.054	1.00	38.58
ATOM	1280	CG	ARG	176	42.160	3.103	98.665	1.00	42.12
ATOM	1281	CD	ARG	176	43.249	2.096	98.312	1.00	46.15
ATOM	1282	NE	ARG	176	44.420	2.735	97.711	1.00	50.82
ATOM	1283	CZ	ARG	176	45.226	2.147	96.829	1.00	52.91
ATOM	1284	NH1	ARG	176	44.992	0.900	96.435	1.00	53.04
ATOM	1285	NH2	ARG	176	46.268	2.806	96.335	1.00	52.97
ATOM	1286	C	ARG	176	39.173	3.805	99.550	1.00	38.06
ATOM	1287	O	ARG	176	38.466	2.896	99.980	1.00	38.57
ATOM	1288	N	ARG	177	39.490	4.873	100.276	1.00	38.58
ATOM	1289	CA	ARG	177	39.006	5.021	101.644	1.00	39.45
ATOM	1290	CB	ARG	177	40.180	5.154	102.619	1.00	40.84
ATOM	1291	CG	ARG	177	41.362	4.250	102.313	1.00	42.55
ATOM	1292	CD	ARG	177	41.634	3.270	103.448	1.00	44.61
ATOM	1293	NE	ARG	177	42.293	2.064	102.953	1.00	48.21
ATOM	1294	CZ	ARG	177	43.246	1.403	103.604	1.00	49.32

Table_1

ATOM	1295	NH1	ARG	177	43.663	1.826	104.791	1.00	49.40
ATOM	1296	NH2	ARG	177	43.796	0.324	103.056	1.00	48.86
ATOM	1297	C	ARG	177	38.081	6.226	101.805	1.00	39.86
ATOM	1298	O	ARG	177	37.768	6.924	100.839	1.00	38.21
ATOM	1299	N	ASP	178	37.656	6.465	103.041	1.00	41.24
ATOM	1300	CA	ASP	178	36.757	7.567	103.363	1.00	42.74
ATOM	1301	CB	ASP	178	35.798	7.151	104.482	1.00	45.65
ATOM	1302	CG	ASP	178	36.424	6.158	105.454	1.00	49.50
ATOM	1303	OD1	ASP	178	36.415	6.425	106.676	1.00	51.04
ATOM	1304	OD2	ASP	178	36.928	5.108	104.998	1.00	51.15
ATOM	1305	C	ASP	178	37.503	8.831	103.771	1.00	42.14
ATOM	1306	O	ASP	178	36.905	9.901	103.890	1.00	41.28
ATOM	1307	N	GLU	179	38.808	8.702	103.991	1.00	42.76
ATOM	1308	CA	GLU	179	39.643	9.842	104.368	1.00	43.07
ATOM	1309	CB	GLU	179	40.171	9.712	105.806	1.00	45.15
ATOM	1310	CG	GLU	179	39.160	9.263	106.836	1.00	49.63
ATOM	1311	CD	GLU	179	39.811	8.938	108.163	1.00	52.63
ATOM	1312	OE1	GLU	179	39.291	9.368	109.210	1.00	56.11
ATOM	1313	OE2	GLU	179	40.849	8.249	108.152	1.00	53.21
ATOM	1314	C	GLU	179	40.837	9.896	103.431	1.00	42.26
ATOM	1315	O	GLU	179	41.254	8.880	102.881	1.00	42.09
ATOM	1316	N	LEU	180	41.384	11.086	103.240	1.00	41.04
ATOM	1317	CA	LEU	180	42.553	11.224	102.396	1.00	40.33
ATOM	1318	CB	LEU	180	42.631	12.628	101.811	1.00	38.78

Table_1

ATOM	1319	CG	LEU	180	41.554	12.905	100.772	1.00	38.19
ATOM	1320	CD1	LEU	180	41.549	14.378	100.436	1.00	37.04
ATOM	1321	CD2	LEU	180	41.811	12.062	99.529	1.00	35.67
ATOM	1322	C	LEU	180	43.709	11.026	103.347	1.00	41.61
ATOM	1323	O	LEU	180	43.520	11.025	104.564	1.00	42.04
ATOM	1324	N	ARG	181	44.904	10.841	102.807	1.00	42.57
ATOM	1325	CA	ARG	181	46.074	10.706	103.663	1.00	43.96
ATOM	1326	CB	ARG	181	46.674	9.307	103.554	1.00	43.80
ATOM	1327	CG	ARG	181	46.772	8.808	102.154	1.00	44.73
ATOM	1328	CD	ARG	181	47.952	7.882	102.010	1.00	48.37
ATOM	1329	NE	ARG	181	47.561	6.520	102.353	1.00	50.82
ATOM	1330	CZ	ARG	181	47.494	6.039	103.592	1.00	52.48
ATOM	1331	NH1	ARG	181	47.808	6.803	104.636	1.00	54.39
ATOM	1332	NH2	ARG	181	47.087	4.794	103.783	1.00	53.18
ATOM	1333	C	ARG	181	47.091	11.773	103.264	1.00	44.48
ATOM	1334	O	ARG	181	48.228	11.789	103.748	1.00	44.96
ATOM	1335	N	ALA	182	46.657	12.666	102.377	1.00	44.90
ATOM	1336	CA	ALA	182	47.494	13.770	101.931	1.00	45.68
ATOM	1337	CB	ALA	182	46.888	14.454	100.689	1.00	45.77
ATOM	1338	C	ALA	182	47.555	14.750	103.096	1.00	46.19
ATOM	1339	O	ALA	182	46.622	14.858	103.883	1.00	45.75
ATOM	1340	N	GLN	183	48.676	15.438	103.204	1.00	46.81
ATOM	1341	CA	GLN	183	48.946	16.430	104.234	1.00	47.15
ATOM	1342	CB	GLN	183	50.306	16.975	103.851	1.00	48.49

Table_1

ATOM	1343	CG	GLN	183	50.849	18.187	104.488	1.00	51.53
ATOM	1344	CD	GLN	183	52.195	18.492	103.867	1.00	52.57
ATOM	1345	OE1	GLN	183	52.868	19.449	104.244	1.00	55.71
ATOM	1346	NE2	GLN	183	52.597	17.662	102.899	1.00	51.40
ATOM	1347	C	GLN	183	47.820	17.495	104.253	1.00	46.51
ATOM	1348	O	GLN	183	47.468	18.025	103.207	1.00	46.23
ATOM	1349	N	ARG	184	47.254	17.822	105.419	1.00	45.91
ATOM	1350	CA	ARG	184	46.138	18.774	105.445	1.00	45.21
ATOM	1351	CB	ARG	184	45.776	19.168	106.873	1.00	46.74
ATOM	1352	CG	ARG	184	44.303	19.478	107.018	1.00	49.58
ATOM	1353	CD	ARG	184	44.056	20.532	108.054	1.00	53.40
ATOM	1354	NE	ARG	184	43.142	20.030	109.082	1.00	56.64
ATOM	1355	CZ	ARG	184	42.226	20.755	109.694	1.00	58.35
ATOM	1356	NH1	ARG	184	42.083	22.056	109.402	1.00	59.41
ATOM	1357	NH2	ARG	184	41.480	20.198	110.646	1.00	58.75
ATOM	1358	C	ARG	184	46.322	20.029	104.618	1.00	43.42
ATOM	1359	O	ARG	184	45.355	20.548	104.057	1.00	43.57
ATOM	1360	N	ILE	185	47.553	20.526	104.543	1.00	41.87
ATOM	1361	CA	ILE	185	47.791	21.725	103.758	1.00	41.24
ATOM	1362	CB	ILE	185	49.309	22.114	103.700	1.00	41.94
ATOM	1363	CG2	ILE	185	50.107	21.110	102.871	1.00	41.31
ATOM	1364	CG1	ILE	185	49.460	23.508	103.079	1.00	43.67
ATOM	1365	CD1	ILE	185	50.826	24.182	103.370	1.00	45.88
ATOM	1366	C	ILE	185	47.259	21.511	102.341	1.00	39.96

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Table_1

ATOM	1367	O	ILE	185	46.528	22.345	101.791	1.00	39.00
ATOM	1368	N	LEU	186	47.586	20.352	101.781	1.00	39.38
ATOM	1369	CA	LEU	186	47.178	20.005	100.420	1.00	38.57
ATOM	1370	CB	LEU	186	48.071	18.881	99.906	1.00	37.94
ATOM	1371	CG	LEU	186	49.573	19.048	100.137	1.00	37.43
ATOM	1372	CD1	LEU	186	50.315	17.877	99.517	1.00	36.66
ATOM	1373	CD2	LEU	186	50.050	20.359	99.541	1.00	36.89
ATOM	1374	C	LEU	186	45.711	19.612	100.251	1.00	38.66
ATOM	1375	O	LEU	186	45.063	20.080	99.322	1.00	38.77
ATOM	1376	N	GLN	187	45.199	18.769	101.145	1.00	38.25
ATOM	1377	CA	GLN	187	43.803	18.378	101.032	1.00	38.42
ATOM	1378	CB	GLN	187	43.346	17.569	102.242	1.00	37.99
ATOM	1379	CG	GLN	187	44.099	16.298	102.540	1.00	39.43
ATOM	1380	CD	GLN	187	43.553	15.630	103.797	1.00	39.79
ATOM	1381	OE1	GLN	187	42.683	16.190	104.456	1.00	42.02
ATOM	1382	NE2	GLN	187	44.054	14.440	104.132	1.00	38.36
ATOM	1383	C	GLN	187	42.984	19.658	101.005	1.00	38.00
ATOM	1384	O	GLN	187	42.130	19.868	100.131	1.00	38.12
ATOM	1385	N	ASP	188	43.234	20.515	101.981	1.00	38.66
ATOM	1386	CA	ASP	188	42.527	21.771	102.111	1.00	38.76
ATOM	1387	CB	ASP	188	42.909	22.420	103.440	1.00	40.89
ATOM	1388	CG	ASP	188	41.965	21.989	104.546	1.00	44.43
ATOM	1389	OD1	ASP	188	42.412	21.291	105.489	1.00	45.73
ATOM	1390	OD2	ASP	188	40.764	22.315	104.432	1.00	47.20

Table_1

ATOM	1391	C	ASP	188	42.674	22.735	100.962	1.00	38.17
ATOM	1392	O	ASP	188	41.924	23.701	100.870	1.00	38.46
ATOM	1393	N	ARG	189	43.625	22.459	100.079	1.00	37.63
ATOM	1394	CA	ARG	189	43.867	23.299	98.916	1.00	37.08
ATOM	1395	CB	ARG	189	45.302	23.114	98.424	1.00	39.35
ATOM	1396	CG	ARG	189	46.246	24.249	98.844	1.00	42.39
ATOM	1397	CD	ARG	189	47.553	24.200	98.060	1.00	43.53
ATOM	1398	NE	ARG	189	48.732	24.329	98.913	1.00	45.44
ATOM	1399	CZ	ARG	189	49.917	23.765	98.691	1.00	45.94
ATOM	1400	NH1	ARG	189	50.907	23.968	99.552	1.00	47.88
ATOM	1401	NH2	ARG	189	50.119	22.993	97.631	1.00	46.31
ATOM	1402	C	ARG	189	42.879	22.843	97.859	1.00	35.71
ATOM	1403	O	ARG	189	42.337	23.640	97.096	1.00	35.45
ATOM	1404	N	ALA	190	42.639	21.539	97.863	1.00	34.51
ATOM	1405	CA	ALA	190	41.750	20.886	96.920	1.00	34.29
ATOM	1406	CB	ALA	190	42.111	19.411	96.824	1.00	33.19
ATOM	1407	C	ALA	190	40.288	21.048	97.304	1.00	34.79
ATOM	1408	O	ALA	190	39.414	21.087	96.437	1.00	35.07
ATOM	1409	N	PHE	191	40.016	21.148	98.599	1.00	35.16
ATOM	1410	CA	PHE	191	38.647	21.302	99.054	1.00	35.24
ATOM	1411	CB	PHE	191	38.575	21.154	100.573	1.00	35.54
ATOM	1412	CG	PHE	191	38.760	19.741	101.065	1.00	36.12
ATOM	1413	CD1	PHE	191	39.522	19.487	102.201	1.00	36.67
ATOM	1414	CD2	PHE	191	38.174	18.665	100.400	1.00	36.98

Table_1

ATOM	1415	CE1	PHE	191	39.692	18.188	102.677	1.00	36.60
ATOM	1416	CE2	PHE	191	38.338	17.360	100.869	1.00	36.56
ATOM	1417	CZ	PHE	191	39.101	17.122	102.007	1.00	36.15
ATOM	1418	C	PHE	191	38.128	22.675	98.650	1.00	36.05
ATOM	1419	O	PHE	191	36.939	22.845	98.380	1.00	37.19
ATOM	1420	N	LYS	192	39.028	23.653	98.608	1.00	36.54
ATOM	1421	CA	LYS	192	38.663	25.016	98.252	1.00	37.62
ATOM	1422	CB	LYS	192	39.612	26.008	98.941	1.00	39.08
ATOM	1423	CG	LYS	192	41.039	26.022	98.408	1.00	41.80
ATOM	1424	CD	LYS	192	41.908	26.985	99.214	1.00	42.09
ATOM	1425	CE	LYS	192	43.340	27.035	98.689	1.00	43.22
ATOM	1426	NZ	LYS	192	43.402	27.107	97.199	1.00	42.87
ATOM	1427	C	LYS	192	38.634	25.261	96.741	1.00	37.83
ATOM	1428	O	LYS	192	38.161	26.305	96.288	1.00	37.73
ATOM	1429	N	ASN	193	39.138	24.301	95.966	1.00	37.65
ATOM	1430	CA	ASN	193	39.143	24.407	94.506	1.00	36.84
ATOM	1431	CB	ASN	193	40.208	23.476	93.914	1.00	34.92
ATOM	1432	CG	ASN	193	40.455	23.733	92.440	1.00	33.94
ATOM	1433	OD1	ASN	193	39.545	23.614	91.618	1.00	33.82
ATOM	1434	ND2	ASN	193	41.689	24.084	92.096	1.00	32.88
ATOM	1435	C	ASN	193	37.749	24.004	94.019	1.00	37.75
ATOM	1436	O	ASN	193	37.202	23.005	94.472	1.00	38.70
ATOM	1437	N	ASP	194	37.179	24.783	93.104	1.00	38.39
ATOM	1438	CA	ASP	194	35.840	24.508	92.591	1.00	38.27

Table_1

ATOM	1439	CB	ASP	194	35.178	25.816	92.136	1.00	39.93
ATOM	1440	CG	ASP	194	34.778	26.697	93.296	1.00	42.56
ATOM	1441	OD1	ASP	194	35.482	27.695	93.557	1.00	43.99
ATOM	1442	OD2	ASP	194	33.763	26.387	93.956	1.00	45.41
ATOM	1443	C	ASP	194	35.798	23.503	91.448	1.00	37.49
ATOM	1444	O	ASP	194	34.725	23.113	91.005	1.00	37.77
ATOM	1445	N	LYS	195	36.963	23.087	90.971	1.00	36.00
ATOM	1446	CA	LYS	195	37.010	22.143	89.878	1.00	35.03
ATOM	1447	CB	LYS	195	38.013	22.612	88.822	1.00	35.43
ATOM	1448	CG	LYS	195	37.813	24.090	88.452	1.00	34.41
ATOM	1449	CD	LYS	195	38.247	24.418	87.037	1.00	32.42
ATOM	1450	CE	LYS	195	39.729	24.718	86.970	1.00	33.29
ATOM	1451	NZ	LYS	195	40.160	24.968	85.568	1.00	32.13
ATOM	1452	C	LYS	195	37.377	20.779	90.438	1.00	34.81
ATOM	1453	O	LYS	195	37.345	19.784	89.703	1.00	34.92
ATOM	1454	N	ILE	196	37.722	20.711	91.727	1.00	34.65
ATOM	1455	CA	ILE	196	38.079	19.420	92.264	1.00	34.78
ATOM	1456	CB	ILE	196	39.241	19.486	93.212	1.00	34.63
ATOM	1457	CG2	ILE	196	39.414	18.153	93.984	1.00	35.86
ATOM	1458	CG1	ILE	196	40.480	19.673	92.347	1.00	34.30
ATOM	1459	CD1	ILE	196	41.721	19.920	93.074	1.00	33.04
ATOM	1460	C	ILE	196	36.860	18.766	92.875	1.00	35.24
ATOM	1461	O	ILE	196	35.903	19.432	93.250	1.00	35.97
ATOM	1462	N	ASP	197	36.887	17.436	92.916	1.00	35.47

Table_1

ATOM	1463	CA	ASP	197	35.704	16.786	93.389	1.00	34.38
ATOM	1464	CB	ASP	197	34.710	17.057	92.201	1.00	35.79
ATOM	1465	CG	ASP	197	33.771	15.934	91.864	1.00	37.75
ATOM	1466	OD1	ASP	197	33.062	15.539	92.787	1.00	39.75
ATOM	1467	OD2	ASP	197	33.701	15.499	90.666	1.00	39.59
ATOM	1468	C	ASP	197	36.100	15.347	93.842	1.00	32.96
ATOM	1469	O	ASP	197	37.063	14.791	93.315	1.00	32.55
ATOM	1470	N	PHE	198	35.440	14.833	94.891	1.00	31.51
ATOM	1471	CA	PHE	198	35.811	13.509	95.434	1.00	30.13
ATOM	1472	CB	PHE	198	36.361	13.624	96.887	1.00	28.97
ATOM	1473	CG	PHE	198	37.478	14.630	97.063	1.00	28.70
ATOM	1474	CD1	PHE	198	37.199	15.973	96.920	1.00	28.47
ATOM	1475	CD2	PHE	198	38.791	14.246	97.371	1.00	28.48
ATOM	1476	CE1	PHE	198	38.177	16.926	97.068	1.00	28.47
ATOM	1477	CE2	PHE	198	39.791	15.212	97.523	1.00	27.82
ATOM	1478	CZ	PHE	198	39.473	16.552	97.369	1.00	27.51
ATOM	1479	C	PHE	198	34.778	12.402	95.419	1.00	29.98
ATOM	1480	O	PHE	198	33.589	12.618	95.630	1.00	29.69
ATOM	1481	N	ILE	199	35.279	11.198	95.162	1.00	30.34
ATOM	1482	CA	ILE	199	34.473	9.979	95.135	1.00	30.37
ATOM	1483	CB	ILE	199	34.421	9.345	93.719	1.00	28.87
ATOM	1484	CG2	ILE	199	33.914	7.917	93.803	1.00	27.31
ATOM	1485	CG1	ILE	199	33.454	10.142	92.834	1.00	27.75
ATOM	1486	CD1	ILE	199	33.350	9.657	91.388	1.00	25.20

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ATOM	1487	C	ILE	199	35.154	9.035	96.114	1.00	31.19
ATOM	1488	O	ILE	199	36.169	8.411	95.802	1.00	33.24
ATOM	1489	N	TRP	200	34.585	8.959	97.312	1.00	30.98
ATOM	1490	CA	TRP	200	35.121	8.146	98.394	1.00	29.62
ATOM	1491	CB	TRP	200	34.700	8.751	99.733	1.00	28.76
ATOM	1492	CG	TRP	200	34.946	10.222	99.831	1.00	27.89
ATOM	1493	CD2	TRP	200	36.180	10.859	100.186	1.00	28.78
ATOM	1494	CE2	TRP	200	35.954	12.253	100.135	1.00	27.80
ATOM	1495	CE3	TRP	200	37.442	10.392	100.562	1.00	28.53
ATOM	1496	CD1	TRP	200	34.060	11.220	99.570	1.00	27.92
ATOM	1497	NE1	TRP	200	34.656	12.446	99.743	1.00	27.32
ATOM	1498	CZ2	TRP	200	36.956	13.186	100.421	1.00	27.68
ATOM	1499	CZ3	TRP	200	38.437	11.319	100.860	1.00	29.56
ATOM	1500	CH2	TRP	200	38.187	12.701	100.778	1.00	28.40
ATOM	1501	C	TRP	200	34.768	6.665	98.388	1.00	29.46
ATOM	1502	O	TRP	200	33.801	6.234	97.762	1.00	31.22
ATOM	1503	N	SER	201	35.576	5.898	99.114	1.00	28.55
ATOM	1504	CA	SER	201	35.392	4.463	99.253	1.00	27.49
ATOM	1505	CB	SER	201	34.258	4.182	100.239	1.00	26.92
ATOM	1506	OG	SER	201	34.545	4.746	101.508	1.00	24.19
ATOM	1507	C	SER	201	35.111	3.772	97.928	1.00	28.04
ATOM	1508	O	SER	201	34.173	2.984	97.819	1.00	27.37
ATOM	1509	N	HIS	202	35.930	4.071	96.923	1.00	28.11
ATOM	1510	CA	HIS	202	35.787	3.468	95.603	1.00	27.58

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ATOM	1511	CB	HIS	202	35.077	4.426	94.645	1.00	27.80
ATOM	1512	CG	HIS	202	33.586	4.340	94.677	1.00	27.42
ATOM	1513	CD2	HIS	202	32.702	3.742	93.835	1.00	25.89
ATOM	1514	ND1	HIS	202	32.826	4.917	95.670	1.00	27.20
ATOM	1515	CE1	HIS	202	31.544	4.696	95.436	1.00	26.95
ATOM	1516	NE2	HIS	202	31.447	3.982	94.324	1.00	24.92
ATOM	1517	C	HIS	202	37.157	3.118	95.036	1.00	27.71
ATOM	1518	O	HIS	202	38.167	3.704	95.422	1.00	27.79
ATOM	1519	N	THR	203	37.183	2.157	94.121	1.00	27.63
ATOM	1520	CA	THR	203	38.418	1.737	93.481	1.00	27.86
ATOM	1521	CB	THR	203	38.782	0.287	93.855	1.00	28.47
ATOM	1522	OG1	THR	203	37.764	-0.604	93.383	1.00	30.70
ATOM	1523	CG2	THR	203	38.897	0.144	95.357	1.00	29.84
ATOM	1524	C	THR	203	38.183	1.818	91.985	1.00	28.05
ATOM	1525	O	THR	203	37.040	1.881	91.542	1.00	27.46
ATOM	1526	N	LEU	204	39.257	1.837	91.207	1.00	28.59
ATOM	1527	CA	LEU	204	39.125	1.896	89.759	1.00	30.00
ATOM	1528	CB	LEU	204	40.370	2.526	89.142	1.00	29.08
ATOM	1529	CG	LEU	204	40.369	2.702	87.622	1.00	29.71
ATOM	1530	CD1	LEU	204	39.286	3.682	87.217	1.00	29.80
ATOM	1531	CD2	LEU	204	41.724	3.208	87.164	1.00	28.29
ATOM	1532	C	LEU	204	38.957	0.470	89.249	1.00	31.23
ATOM	1533	O	LEU	204	39.771	-0.396	89.564	1.00	31.99
ATOM	1534	N	LYS	205	37.906	0.218	88.473	1.00	31.51

Table_1

ATOM	1535	CA	LYS	205	37.675	-1.127	87.957	1.00	29.86
ATOM	1536	CB	LYS	205	36.193	-1.487	88.019	1.00	30.80
ATOM	1537	CG	LYS	205	35.946	-2.985	87.935	1.00	31.70
ATOM	1538	CD	LYS	205	34.599	-3.368	88.522	1.00	34.14
ATOM	1539	CE	LYS	205	34.008	-4.567	87.799	1.00	33.44
ATOM	1540	NZ	LYS	205	34.952	-5.704	87.697	1.00	34.97
ATOM	1541	C	LYS	205	38.173	-1.316	86.537	1.00	28.97
ATOM	1542	O	LYS	205	38.569	-2.416	86.156	1.00	29.37
ATOM	1543	N	SER	206	38.148	-0.247	85.751	1.00	27.96
ATOM	1544	CA	SER	206	38.613	-0.318	84.373	1.00	27.19
ATOM	1545	CB	SER	206	37.761	-1.299	83.573	1.00	25.39
ATOM	1546	OG	SER	206	36.538	-0.696	83.183	1.00	25.09
ATOM	1547	C	SER	206	38.589	1.028	83.671	1.00	27.34
ATOM	1548	O	SER	206	37.845	1.929	84.050	1.00	27.42
ATOM	1549	N	ILE	207	39.427	1.156	82.651	1.00	27.81
ATOM	1550	CA	ILE	207	39.480	2.366	81.856	1.00	29.37
ATOM	1551	CB	ILE	207	40.916	2.879	81.676	1.00	31.02
ATOM	1552	CG2	ILE	207	40.905	4.137	80.827	1.00	27.88
ATOM	1553	CG1	ILE	207	41.540	3.179	83.040	1.00	31.62
ATOM	1554	CD1	ILE	207	43.043	3.338	82.992	1.00	34.03
ATOM	1555	C	ILE	207	38.926	1.929	80.512	1.00	29.39
ATOM	1556	O	ILE	207	39.549	1.150	79.792	1.00	29.49
ATOM	1557	N	ASN	208	37.744	2.426	80.185	1.00	29.69
ATOM	1558	CA	ASN	208	37.086	2.053	78.951	1.00	29.50

Table_1

ATOM	1559	CB	ASN	208	35.586	2.074	79.186	1.00	29.21
ATOM	1560	CG	ASN	208	35.221	1.491	80.533	1.00	29.65
ATOM	1561	OD1	ASN	208	35.604	0.366	80.856	1.00	29.02
ATOM	1562	ND2	ASN	208	34.491	2.255	81.334	1.00	29.72
ATOM	1563	C	ASN	208	37.461	2.908	77.758	1.00	30.17
ATOM	1564	O	ASN	208	37.454	4.136	77.826	1.00	30.08
ATOM	1565	N	GLU	209	37.787	2.229	76.663	1.00	31.56
ATOM	1566	CA	GLU	209	38.185	2.868	75.417	1.00	32.93
ATOM	1567	CB	GLU	209	38.973	1.881	74.559	1.00	32.99
ATOM	1568	CG	GLU	209	39.814	2.532	73.484	1.00	35.49
ATOM	1569	CD	GLU	209	40.218	1.561	72.395	1.00	37.61
ATOM	1570	OE1	GLU	209	41.297	0.937	72.510	1.00	37.69
ATOM	1571	OE2	GLU	209	39.452	1.424	71.422	1.00	39.45
ATOM	1572	C	GLU	209	36.979	3.358	74.634	1.00	34.11
ATOM	1573	O	GLU	209	35.912	2.753	74.684	1.00	33.06
ATOM	1574	N	LYS	210	37.156	4.453	73.904	1.00	36.10
ATOM	1575	CA	LYS	210	36.074	5.012	73.109	1.00	38.53
ATOM	1576	CB	LYS	210	35.678	6.387	73.642	1.00	39.66
ATOM	1577	CG	LYS	210	34.350	6.889	73.107	1.00	40.50
ATOM	1578	CD	LYS	210	33.929	8.171	73.802	1.00	42.23
ATOM	1579	CE	LYS	210	32.539	8.035	74.412	1.00	43.13
ATOM	1580	NZ	LYS	210	32.547	8.253	75.892	1.00	44.08
ATOM	1581	C	LYS	210	36.486	5.131	71.651	1.00	39.95
ATOM	1582	O	LYS	210	36.365	4.176	70.886	1.00	41.75

Table_1

ATOM	1583	N	ASP	211	36.970	6.303	71.259	1.00	40.24
ATOM	1584	CA	ASP	211	37.383	6.498	69.876	1.00	40.85
ATOM	1585	CB	ASP	211	36.813	7.807	69.331	1.00	42.27
ATOM	1586	CG	ASP	211	35.342	7.682	68.960	1.00	43.16
ATOM	1587	OD1	ASP	211	35.047	7.181	67.852	1.00	44.09
ATOM	1588	OD2	ASP	211	34.482	8.080	69.774	1.00	42.59
ATOM	1589	C	ASP	211	38.905	6.491	69.792	1.00	40.48
ATOM	1590	O	ASP	211	39.531	7.483	69.408	1.00	40.03
ATOM	1591	N	GLY	212	39.488	5.349	70.145	1.00	39.64
ATOM	1592	CA	GLY	212	40.927	5.213	70.131	1.00	37.57
ATOM	1593	C	GLY	212	41.568	5.816	71.367	1.00	36.86
ATOM	1594	O	GLY	212	42.785	5.881	71.453	1.00	37.12
ATOM	1595	N	LYS	213	40.752	6.253	72.321	1.00	35.69
ATOM	1596	CA	LYS	213	41.276	6.858	73.536	1.00	34.14
ATOM	1597	CB	LYS	213	41.451	8.359	73.316	1.00	33.49
ATOM	1598	CG	LYS	213	40.148	9.056	72.985	1.00	35.71
ATOM	1599	CD	LYS	213	40.355	10.478	72.529	1.00	38.17
ATOM	1600	CE	LYS	213	39.025	11.138	72.200	1.00	38.43
ATOM	1601	NZ	LYS	213	39.188	12.560	71.790	1.00	41.02
ATOM	1602	C	LYS	213	40.324	6.632	74.708	1.00	32.97
ATOM	1603	O	LYS	213	39.180	6.238	74.522	1.00	32.39
ATOM	1604	N	VAL	214	40.792	6.911	75.914	1.00	32.32
ATOM	1605	CA	VAL	214	39.979	6.738	77.102	1.00	31.30
ATOM	1606	CB	VAL	214	40.644	7.419	78.308	1.00	29.34

Table_1

ATOM	1607	CG1	VAL	214	39.636	7.636	79.410	1.00	26.38
ATOM	1608	CG2	VAL	214	41.807	6.562	78.820	1.00	27.75
ATOM	1609	C	VAL	214	38.606	7.366	76.872	1.00	31.83
ATOM	1610	O	VAL	214	38.521	8.524	76.478	1.00	32.86
ATOM	1611	N	GLY	215	37.538	6.610	77.115	1.00	32.22
ATOM	1612	CA	GLY	215	36.201	7.149	76.933	1.00	31.29
ATOM	1613	C	GLY	215	35.491	7.399	78.253	1.00	31.63
ATOM	1614	O	GLY	215	34.795	8.404	78.439	1.00	31.37
ATOM	1615	N	SER	216	35.669	6.469	79.180	1.00	30.65
ATOM	1616	CA	SER	216	35.056	6.573	80.491	1.00	28.79
ATOM	1617	CB	SER	216	33.631	6.025	80.447	1.00	28.15
ATOM	1618	OG	SER	216	33.578	4.827	79.692	1.00	25.76
ATOM	1619	C	SER	216	35.882	5.759	81.469	1.00	28.64
ATOM	1620	O	SER	216	36.966	5.284	81.131	1.00	28.88
ATOM	1621	N	VAL	217	35.366	5.604	82.682	1.00	27.59
ATOM	1622	CA	VAL	217	36.041	4.823	83.709	1.00	27.28
ATOM	1623	CB	VAL	217	36.954	5.692	84.591	1.00	26.64
ATOM	1624	CG1	VAL	217	38.210	6.052	83.835	1.00	27.11
ATOM	1625	CG2	VAL	217	36.215	6.935	85.030	1.00	27.94
ATOM	1626	C	VAL	217	34.990	4.194	84.603	1.00	26.95
ATOM	1627	O	VAL	217	34.007	4.839	84.966	1.00	26.73
ATOM	1628	N	THR	218	35.197	2.929	84.947	1.00	26.01
ATOM	1629	CA	THR	218	34.272	2.218	85.813	1.00	25.69
ATOM	1630	CB	THR	218	33.990	0.811	85.277	1.00	24.88

Table_1

ATOM	1631	OG1	THR	218	33.455	0.909	83.953	1.00	24.62
ATOM	1632	CG2	THR	218	32.993	0.092	86.167	1.00	25.28
ATOM	1633	C	THR	218	34.893	2.113	87.197	1.00	26.69
ATOM	1634	O	THR	218	36.064	1.766	87.336	1.00	27.58
ATOM	1635	N	LEU	219	34.108	2.424	88.221	1.00	28.41
ATOM	1636	CA	LEU	219	34.589	2.366	89.594	1.00	29.78
ATOM	1637	CB	LEU	219	34.525	3.753	90.231	1.00	30.29
ATOM	1638	CG	LEU	219	35.026	4.870	89.315	1.00	30.59
ATOM	1639	CD1	LEU	219	34.597	6.226	89.853	1.00	29.07
ATOM	1640	CD2	LEU	219	36.539	4.779	89.205	1.00	29.69
ATOM	1641	C	LEU	219	33.754	1.386	90.398	1.00	31.08
ATOM	1642	O	LEU	219	32.626	1.070	90.026	1.00	32.23
ATOM	1643	N	THR	220	34.313	0.913	91.504	1.00	32.28
ATOM	1644	CA	THR	220	33.633	-0.050	92.358	1.00	34.07
ATOM	1645	CB	THR	220	34.315	-1.427	92.286	1.00	34.72
ATOM	1646	OG1	THR	220	34.809	-1.646	90.960	1.00	36.66
ATOM	1647	CG2	THR	220	33.338	-2.526	92.643	1.00	34.81
ATOM	1648	C	THR	220	33.660	0.401	93.802	1.00	34.04
ATOM	1649	O	THR	220	34.727	0.646	94.359	1.00	35.34
ATOM	1650	N	SER	221	32.488	0.509	94.413	1.00	34.93
ATOM	1651	CA	SER	221	32.425	0.923	95.803	1.00	36.24
ATOM	1652	CB	SER	221	30.998	0.847	96.347	1.00	36.65
ATOM	1653	OG	SER	221	30.994	0.766	97.770	1.00	36.56
ATOM	1654	C	SER	221	33.284	-0.038	96.582	1.00	37.21

Table_1

ATOM	1655	O	SER	221	33.278	-1.242	96.316	1.00	36.60
ATOM	1656	N	THR	222	34.034	0.492	97.537	1.00	38.03
ATOM	1657	CA	THR	222	34.879	-0.345	98.358	1.00	39.06
ATOM	1658	CB	THR	222	35.937	0.465	99.118	1.00	39.62
ATOM	1659	OG1	THR	222	35.292	1.483	99.885	1.00	41.75
ATOM	1660	CG2	THR	222	36.914	1.126	98.155	1.00	39.84
ATOM	1661	C	THR	222	33.970	-1.024	99.375	1.00	39.42
ATOM	1662	O	THR	222	34.371	-1.977	100.058	1.00	40.76
ATOM	1663	N	LYS	223	32.741	-0.525	99.475	1.00	39.60
ATOM	1664	CA	LYS	223	31.777	-1.083	100.405	1.00	39.22
ATOM	1665	CB	LYS	223	30.778	-0.014	100.844	1.00	38.83
ATOM	1666	CG	LYS	223	31.462	1.279	101.303	1.00	38.65
ATOM	1667	CD	LYS	223	31.426	1.424	102.817	1.00	39.07
ATOM	1668	CE	LYS	223	31.619	2.869	103.237	1.00	39.39
ATOM	1669	NZ	LYS	223	32.640	3.084	104.320	1.00	40.81
ATOM	1670	C	LYS	223	31.035	-2.255	99.818	1.00	39.29
ATOM	1671	O	LYS	223	31.194	-3.382	100.269	1.00	40.12
ATOM	1672	N	ASP	224	30.265	-2.009	98.777	1.00	39.02
ATOM	1673	CA	ASP	224	29.486	-3.103	98.248	1.00	39.94
ATOM	1674	CB	ASP	224	28.023	-2.662	98.119	1.00	41.41
ATOM	1675	CG	ASP	224	27.897	-1.285	97.515	1.00	43.63
ATOM	1676	OD1	ASP	224	28.720	-0.966	96.633	1.00	44.92
ATOM	1677	OD2	ASP	224	26.974	-0.538	97.918	1.00	43.45
ATOM	1678	C	ASP	224	29.909	-3.772	96.952	1.00	40.15

Table_1

ATOM	1679	O	ASP	224	29.630	-4.956	96.755	1.00	41.50
ATOM	1680	N	GLY	225	30.573	-3.029	96.075	1.00	39.43
ATOM	1681	CA	GLY	225	30.966	-3.578	94.790	1.00	38.40
ATOM	1682	C	GLY	225	29.994	-3.002	93.779	1.00	38.37
ATOM	1683	O	GLY	225	29.951	-3.412	92.619	1.00	38.99
ATOM	1684	N	SER	226	29.192	-2.044	94.232	1.00	38.22
ATOM	1685	CA	SER	226	28.227	-1.399	93.364	1.00	39.04
ATOM	1686	CB	SER	226	27.360	-0.423	94.160	1.00	39.52
ATOM	1687	OG	SER	226	28.103	0.724	94.544	1.00	42.41
ATOM	1688	C	SER	226	29.100	-0.653	92.378	1.00	39.16
ATOM	1689	O	SER	226	29.963	0.131	92.784	1.00	38.66
ATOM	1690	N	GLU	227	28.886	-0.900	91.088	1.00	39.43
ATOM	1691	CA	GLU	227	29.680	-0.246	90.059	1.00	39.46
ATOM	1692	CB	GLU	227	29.777	-1.122	88.813	1.00	41.06
ATOM	1693	CG	GLU	227	30.653	-2.359	88.930	1.00	45.39
ATOM	1694	CD	GLU	227	30.666	-3.130	87.630	1.00	49.28
ATOM	1695	OE1	GLU	227	29.877	-2.749	86.742	1.00	50.91
ATOM	1696	OE2	GLU	227	31.444	-4.096	87.486	1.00	50.95
ATOM	1697	C	GLU	227	29.111	1.099	89.647	1.00	38.88
ATOM	1698	O	GLU	227	27.967	1.457	89.971	1.00	39.12
ATOM	1699	N	GLU	228	29.914	1.833	88.895	1.00	38.04
ATOM	1700	CA	GLU	228	29.536	3.141	88.400	1.00	37.37
ATOM	1701	CB	GLU	228	29.904	4.256	89.388	1.00	39.28
ATOM	1702	CG	GLU	228	28.982	4.505	90.545	1.00	42.48

Table_1

ATOM	1703	CD	GLU	228	29.387	5.776	91.286	1.00	44.37
ATOM	1704	OE1	GLU	228	30.403	6.383	90.887	1.00	44.42
ATOM	1705	OE2	GLU	228	28.706	6.174	92.258	1.00	46.07
ATOM	1706	C	GLU	228	30.419	3.338	87.205	1.00	36.00
ATOM	1707	O	GLU	228	31.545	2.871	87.202	1.00	36.20
ATOM	1708	N	THR	229	29.909	4.010	86.184	1.00	34.54
ATOM	1709	CA	THR	229	30.731	4.316	85.020	1.00	33.53
ATOM	1710	CB	THR	229	30.242	3.606	83.738	1.00	33.00
ATOM	1711	OG1	THR	229	30.502	2.203	83.849	1.00	32.12
ATOM	1712	CG2	THR	229	30.973	4.145	82.522	1.00	31.54
ATOM	1713	C	THR	229	30.531	5.805	84.877	1.00	33.67
ATOM	1714	O	THR	229	29.460	6.311	85.185	1.00	33.50
ATOM	1715	N	HIS	230	31.572	6.506	84.455	1.00	34.41
ATOM	1716	CA	HIS	230	31.500	7.943	84.263	1.00	33.98
ATOM	1717	CB	HIS	230	32.086	8.711	85.440	1.00	33.45
ATOM	1718	CG	HIS	230	31.746	8.139	86.775	1.00	34.11
ATOM	1719	CD2	HIS	230	32.305	7.134	87.495	1.00	36.11
ATOM	1720	ND1	HIS	230	30.780	8.694	87.589	1.00	34.28
ATOM	1721	CE1	HIS	230	30.757	8.049	88.748	1.00	34.55
ATOM	1722	NE2	HIS	230	31.675	7.103	88.706	1.00	36.35
ATOM	1723	C	HIS	230	32.344	8.264	83.062	1.00	34.28
ATOM	1724	O	HIS	230	33.388	7.647	82.850	1.00	34.78
ATOM	1725	N	GLU	231	31.911	9.242	82.284	1.00	34.15
ATOM	1726	CA	GLU	231	32.676	9.602	81.114	1.00	32.93

Table_1

ATOM	1727	CB	GLU	231	31.755	10.270	80.095	1.00	34.71
ATOM	1728	CG	GLU	231	30.941	9.218	79.356	1.00	40.19
ATOM	1729	CD	GLU	231	30.099	9.773	78.234	1.00	43.74
ATOM	1730	OE1	GLU	231	30.656	10.052	77.154	1.00	46.76
ATOM	1731	OE2	GLU	231	28.874	9.919	78.422	1.00	45.36
ATOM	1732	C	GLU	231	33.860	10.474	81.499	1.00	30.65
ATOM	1733	O	GLU	231	33.744	11.409	82.291	1.00	29.63
ATOM	1734	N	ALA	232	35.024	10.149	80.964	1.00	29.36
ATOM	1735	CA	ALA	232	36.215	10.904	81.262	1.00	28.50
ATOM	1736	CB	ALA	232	37.027	10.191	82.326	1.00	27.75
ATOM	1737	C	ALA	232	37.011	11.022	79.973	1.00	28.43
ATOM	1738	O	ALA	232	36.812	10.239	79.037	1.00	28.17
ATOM	1739	N	ASP	233	37.918	11.995	79.934	1.00	28.59
ATOM	1740	CA	ASP	233	38.774	12.223	78.776	1.00	28.04
ATOM	1741	CB	ASP	233	38.902	13.721	78.484	1.00	28.58
ATOM	1742	CG	ASP	233	37.573	14.367	78.135	1.00	29.24
ATOM	1743	OD1	ASP	233	36.894	13.873	77.209	1.00	28.64
ATOM	1744	OD2	ASP	233	37.210	15.373	78.786	1.00	29.60
ATOM	1745	C	ASP	233	40.153	11.656	79.089	1.00	26.99
ATOM	1746	O	ASP	233	40.956	11.404	78.191	1.00	26.89
ATOM	1747	N	GLY	234	40.418	11.459	80.375	1.00	25.55
ATOM	1748	CA	GLY	234	41.697	10.925	80.787	1.00	24.48
ATOM	1749	C	GLY	234	41.705	10.501	82.238	1.00	23.95
ATOM	1750	O	GLY	234	40.781	10.804	82.993	1.00	23.29

Table_1

ATOM	1751	N	VAL	235	42.759	9.791	82.625	1.00	23.79
ATOM	1752	CA	VAL	235	42.911	9.315	83.992	1.00	23.34
ATOM	1753	CB	VAL	235	42.420	7.860	84.146	1.00	22.89
ATOM	1754	CG1	VAL	235	42.400	7.471	85.618	1.00	20.97
ATOM	1755	CG2	VAL	235	41.041	7.710	83.533	1.00	23.47
ATOM	1756	C	VAL	235	44.371	9.357	84.420	1.00	22.43
ATOM	1757	O	VAL	235	45.243	8.823	83.738	1.00	21.46
ATOM	1758	N	PHE	236	44.633	10.003	85.549	1.00	22.81
ATOM	1759	CA	PHE	236	45.983	10.083	86.075	1.00	23.47
ATOM	1760	CB	PHE	236	46.322	11.522	86.455	1.00	21.69
ATOM	1761	CG	PHE	236	46.715	12.373	85.283	1.00	21.05
ATOM	1762	CD1	PHE	236	45.776	12.726	84.325	1.00	21.07
ATOM	1763	CD2	PHE	236	48.027	12.806	85.124	1.00	21.63
ATOM	1764	CE1	PHE	236	46.131	13.489	83.220	1.00	21.05
ATOM	1765	CE2	PHE	236	48.396	13.573	84.017	1.00	21.99
ATOM	1766	CZ	PHE	236	47.442	13.916	83.065	1.00	20.84
ATOM	1767	C	PHE	236	46.011	9.180	87.297	1.00	24.88
ATOM	1768	O	PHE	236	45.195	9.328	88.205	1.00	25.94
ATOM	1769	N	ILE	237	46.937	8.230	87.313	1.00	25.61
ATOM	1770	CA	ILE	237	47.026	7.307	88.430	1.00	26.17
ATOM	1771	CB	ILE	237	47.174	5.859	87.930	1.00	25.87
ATOM	1772	CG2	ILE	237	47.919	5.015	88.949	1.00	25.09
ATOM	1773	CG1	ILE	237	45.791	5.258	87.701	1.00	25.74
ATOM	1774	CD1	ILE	237	45.512	4.909	86.259	1.00	25.24

Table_1

ATOM	1775	C	ILE	237	48.182	7.652	89.350	1.00	26.85
ATOM	1776	O	ILE	237	49.269	7.995	88.894	1.00	27.19
ATOM	1777	N	TYR	238	47.933	7.567	90.652	1.00	27.26
ATOM	1778	CA	TYR	238	48.949	7.866	91.643	1.00	28.08
ATOM	1779	CB	TYR	238	48.646	9.210	92.305	1.00	28.33
ATOM	1780	CG	TYR	238	48.776	10.353	91.324	1.00	28.48
ATOM	1781	CD1	TYR	238	47.648	10.943	90.757	1.00	27.97
ATOM	1782	CE1	TYR	238	47.766	11.918	89.765	1.00	27.83
ATOM	1783	CD2	TYR	238	50.033	10.773	90.878	1.00	27.94
ATOM	1784	CE2	TYR	238	50.159	11.745	89.888	1.00	27.03
ATOM	1785	CZ	TYR	238	49.024	12.305	89.332	1.00	26.96
ATOM	1786	OH	TYR	238	49.145	13.226	88.319	1.00	27.84
ATOM	1787	C	TYR	238	49.012	6.737	92.658	1.00	29.59
ATOM	1788	O	TYR	238	48.425	6.797	93.738	1.00	28.96
ATOM	1789	N	ILE	239	49.741	5.698	92.273	1.00	31.05
ATOM	1790	CA	ILE	239	49.912	4.505	93.082	1.00	31.70
ATOM	1791	CB	ILE	239	49.529	3.266	92.256	1.00	32.00
ATOM	1792	CG2	ILE	239	49.728	2.006	93.056	1.00	33.30
ATOM	1793	CG1	ILE	239	48.075	3.390	91.812	1.00	33.64
ATOM	1794	CD1	ILE	239	47.077	3.387	92.954	1.00	33.82
ATOM	1795	C	ILE	239	51.359	4.387	93.549	1.00	31.75
ATOM	1796	O	ILE	239	51.712	3.477	94.301	1.00	31.93
ATOM	1797	N	GLY	240	52.196	5.315	93.096	1.00	31.39
ATOM	1798	CA	GLY	240	53.593	5.299	93.489	1.00	29.68

Table_1

ATOM	1799	C	GLY	240	54.566	5.114	92.342	1.00	28.27
ATOM	1800	O	GLY	240	54.165	4.959	91.191	1.00	28.74
ATOM	1801	N	MET	241	55.855	5.140	92.675	1.00	27.52
ATOM	1802	CA	MET	241	56.937	4.971	91.708	1.00	25.99
ATOM	1803	CB	MET	241	57.598	6.326	91.400	1.00	23.56
ATOM	1804	CG	MET	241	58.988	6.244	90.760	1.00	21.31
ATOM	1805	SD	MET	241	59.620	7.839	90.143	1.00	13.37
ATOM	1806	CE	MET	241	59.008	7.824	88.508	1.00	15.19
ATOM	1807	C	MET	241	57.950	4.031	92.347	1.00	26.49
ATOM	1808	O	MET	241	58.179	4.086	93.557	1.00	27.04
ATOM	1809	N	LYS	242	58.554	3.168	91.541	1.00	25.71
ATOM	1810	CA	LYS	242	59.533	2.226	92.057	1.00	25.99
ATOM	1811	CB	LYS	242	59.001	0.797	91.928	1.00	28.55
ATOM	1812	CG	LYS	242	60.079	-0.266	91.785	1.00	30.13
ATOM	1813	CD	LYS	242	59.468	-1.632	91.526	1.00	33.42
ATOM	1814	CE	LYS	242	59.639	-2.047	90.076	1.00	33.90
ATOM	1815	NZ	LYS	242	59.830	-3.515	89.954	1.00	35.40
ATOM	1816	C	LYS	242	60.863	2.341	91.328	1.00	25.11
ATOM	1817	O	LYS	242	60.931	2.140	90.116	1.00	25.26
ATOM	1818	N	PRO	243	61.938	2.671	92.058	1.00	24.42
ATOM	1819	CD	PRO	243	61.935	2.950	93.509	1.00	22.93
ATOM	1820	CA	PRO	243	63.277	2.809	91.484	1.00	24.51
ATOM	1821	CB	PRO	243	64.076	3.488	92.587	1.00	23.72
ATOM	1822	CG	PRO	243	63.395	3.062	93.841	1.00	22.85

Table_1

ATOM	1823	C	PRO	243	63.848	1.441	91.132	1.00	25.38
ATOM	1824	O	PRO	243	63.780	0.507	91.929	1.00	27.27
ATOM	1825	N	LEU	244	64.412	1.327	89.940	1.00	26.34
ATOM	1826	CA	LEU	244	64.988	0.071	89.485	1.00	26.03
ATOM	1827	CB	LEU	244	64.949	0.030	87.961	1.00	24.20
ATOM	1828	CG	LEU	244	63.560	0.469	87.494	1.00	23.53
ATOM	1829	CD1	LEU	244	63.526	0.586	85.987	1.00	24.71
ATOM	1830	CD2	LEU	244	62.527	-0.532	87.992	1.00	22.09
ATOM	1831	C	LEU	244	66.408	-0.062	90.001	1.00	26.71
ATOM	1832	O	LEU	244	67.376	0.019	89.243	1.00	27.31
ATOM	1833	N	THR	245	66.520	-0.264	91.307	1.00	27.56
ATOM	1834	CA	THR	245	67.816	-0.393	91.956	1.00	28.56
ATOM	1835	CB	THR	245	68.014	0.715	92.995	1.00	27.02
ATOM	1836	OG1	THR	245	66.858	0.786	93.836	1.00	25.10
ATOM	1837	CG2	THR	245	68.213	2.051	92.312	1.00	25.44
ATOM	1838	C	THR	245	67.988	-1.736	92.656	1.00	29.64
ATOM	1839	O	THR	245	68.981	-1.956	93.348	1.00	30.38
ATOM	1840	N	ALA	246	67.025	-2.633	92.475	1.00	30.56
ATOM	1841	CA	ALA	246	67.087	-3.955	93.090	1.00	30.67
ATOM	1842	CB	ALA	246	65.961	-4.830	92.561	1.00	30.57
ATOM	1843	C	ALA	246	68.434	-4.639	92.859	1.00	31.35
ATOM	1844	O	ALA	246	68.942	-5.328	93.743	1.00	32.13
ATOM	1845	N	PRO	247	69.027	-4.477	91.665	1.00	31.14
ATOM	1846	CD	PRO	247	68.533	-3.742	90.488	1.00	30.73

Table_1

ATOM	1847	CA	PRO	247	70.320	-5.110	91.391	1.00	31.50
ATOM	1848	CB	PRO	247	70.452	-5.044	89.870	1.00	30.93
ATOM	1849	CG	PRO	247	69.151	-4.488	89.366	1.00	31.11
ATOM	1850	C	PRO	247	71.502	-4.425	92.079	1.00	32.50
ATOM	1851	O	PRO	247	72.589	-4.994	92.179	1.00	32.28
ATOM	1852	N	PHE	248	71.287	-3.201	92.543	1.00	33.48
ATOM	1853	CA	PHE	248	72.344	-2.447	93.198	1.00	34.31
ATOM	1854	CB	PHE	248	72.476	-1.091	92.526	1.00	34.29
ATOM	1855	CG	PHE	248	72.544	-1.193	91.037	1.00	33.49
ATOM	1856	CD1	PHE	248	73.624	-1.820	90.433	1.00	32.44
ATOM	1857	CD2	PHE	248	71.514	-0.711	90.239	1.00	32.37
ATOM	1858	CE1	PHE	248	73.678	-1.979	89.063	1.00	32.50
ATOM	1859	CE2	PHE	248	71.558	-0.865	88.862	1.00	32.54
ATOM	1860	CZ	PHE	248	72.645	-1.498	88.272	1.00	33.27
ATOM	1861	C	PHE	248	72.077	-2.314	94.680	1.00	35.42
ATOM	1862	O	PHE	248	72.754	-1.579	95.394	1.00	36.45
ATOM	1863	N	LYS	249	71.071	-3.042	95.134	1.00	36.79
ATOM	1864	CA	LYS	249	70.725	-3.066	96.539	1.00	37.89
ATOM	1865	CB	LYS	249	69.437	-3.866	96.715	1.00	39.10
ATOM	1866	CG	LYS	249	68.919	-3.974	98.127	1.00	44.15
ATOM	1867	CD	LYS	249	67.639	-4.811	98.148	1.00	49.37
ATOM	1868	CE	LYS	249	67.004	-4.855	99.535	1.00	52.00
ATOM	1869	NZ	LYS	249	65.725	-5.625	99.532	1.00	54.00
ATOM	1870	C	LYS	249	71.913	-3.785	97.184	1.00	38.57

Table_1

ATOM	1871	O	LYS	249	72.666	-4.484	96.497	1.00	39.66
ATOM	1872	N	ASP	250	72.103	-3.598	98.483	1.00	36.85
ATOM	1873	CA	ASP	250	73.204	-4.244	99.189	1.00	37.20
ATOM	1874	CB	ASP	250	73.216	-5.745	98.890	1.00	39.56
ATOM	1875	CG	ASP	250	72.342	-6.530	99.846	1.00	42.09
ATOM	1876	OD1	ASP	250	71.235	-6.940	99.442	1.00	44.50
ATOM	1877	OD2	ASP	250	72.760	-6.733	101.004	1.00	43.96
ATOM	1878	C	ASP	250	74.579	-3.645	98.896	1.00	35.61
ATOM	1879	O	ASP	250	75.606	-4.238	99.223	1.00	35.49
ATOM	1880	N	LEU	251	74.597	-2.473	98.274	1.00	34.07
ATOM	1881	CA	LEU	251	75.848	-1.785	97.989	1.00	31.61
ATOM	1882	CB	LEU	251	75.825	-1.162	96.594	1.00	31.00
ATOM	1883	CG	LEU	251	76.233	-2.064	95.426	1.00	31.95
ATOM	1884	CD1	LEU	251	75.888	-1.365	94.119	1.00	30.99
ATOM	1885	CD2	LEU	251	77.725	-2.378	95.490	1.00	31.29
ATOM	1886	C	LEU	251	75.936	-0.692	99.047	1.00	30.38
ATOM	1887	O	LEU	251	76.998	-0.128	99.295	1.00	30.06
ATOM	1888	N	GLY	252	74.794	-0.407	99.668	1.00	29.83
ATOM	1889	CA	GLY	252	74.730	0.598	100.715	1.00	29.59
ATOM	1890	C	GLY	252	74.553	2.021	100.229	1.00	29.32
ATOM	1891	O	GLY	252	74.632	2.969	101.016	1.00	29.17
ATOM	1892	N	ILE	253	74.303	2.176	98.936	1.00	29.11
ATOM	1893	CA	ILE	253	74.127	3.505	98.364	1.00	28.66
ATOM	1894	CB	ILE	253	74.779	3.591	96.973	1.00	26.67

Table_1

ATOM	1895	CG2	ILE	253	76.237	3.203	97.064	1.00	25.71
ATOM	1896	CG1	ILE	253	74.029	2.682	95.996	1.00	25.43
ATOM	1897	CD1	ILE	253	74.495	2.785	94.550	1.00	21.61
ATOM	1898	C	ILE	253	72.651	3.827	98.199	1.00	29.69
ATOM	1899	O	ILE	253	72.308	4.798	97.565	1.00	29.45
ATOM	1900	N	THR	254	71.777	3.015	98.781	1.00	30.37
ATOM	1901	CA	THR	254	70.346	3.268	98.596	1.00	31.65
ATOM	1902	CB	THR	254	69.601	2.026	98.136	1.00	30.88
ATOM	1903	OG1	THR	254	70.017	0.884	98.881	1.00	33.65
ATOM	1904	CG2	THR	254	69.865	1.815	96.662	1.00	29.81
ATOM	1905	C	THR	254	69.549	3.866	99.742	1.00	33.12
ATOM	1906	O	THR	254	69.942	3.797	100.911	1.00	33.87
ATOM	1907	N	ASN	255	68.381	4.415	99.421	1.00	34.42
ATOM	1908	CA	ASN	255	67.533	5.074	100.378	1.00	35.23
ATOM	1909	CB	ASN	255	66.718	6.099	99.587	1.00	37.49
ATOM	1910	CG	ASN	255	65.650	6.764	100.332	1.00	38.96
ATOM	1911	OD1	ASN	255	64.693	7.224	99.731	1.00	40.68
ATOM	1912	ND2	ASN	255	65.774	6.831	101.644	1.00	41.98
ATOM	1913	C	ASN	255	66.636	3.957	100.960	1.00	34.21
ATOM	1914	O	ASN	255	66.897	2.769	100.695	1.00	33.77
ATOM	1915	N	ASP	256	65.611	4.345	101.742	1.00	34.21
ATOM	1916	CA	ASP	256	64.634	3.375	102.269	1.00	35.26
ATOM	1917	CB	ASP	256	63.847	3.958	103.419	1.00	36.32
ATOM	1918	CG	ASP	256	64.367	3.518	104.735	1.00	37.16

Table_1

ATOM	1919	OD1	ASP	256	65.406	2.812	104.694	1.00	38.14
ATOM	1920	OD2	ASP	256	63.820	3.844	105.801	1.00	36.51
ATOM	1921	C	ASP	256	63.606	2.931	101.224	1.00	35.85
ATOM	1922	O	ASP	256	63.211	1.793	101.240	1.00	36.33
ATOM	1923	N	VAL	257	63.214	3.784	100.287	1.00	35.46
ATOM	1924	CA	VAL	257	62.205	3.456	99.254	1.00	35.11
ATOM	1925	CB	VAL	257	61.622	4.735	98.870	1.00	35.43
ATOM	1926	CG1	VAL	257	60.312	4.597	97.993	1.00	35.89
ATOM	1927	CG2	VAL	257	61.315	5.457	100.186	1.00	35.97
ATOM	1928	C	VAL	257	62.909	2.738	98.119	1.00	34.33
ATOM	1929	O	VAL	257	62.301	2.027	97.297	1.00	35.63
ATOM	1930	N	GLY	258	64.224	2.918	98.169	1.00	32.93
ATOM	1931	CA	GLY	258	65.144	2.315	97.234	1.00	31.08
ATOM	1932	C	GLY	258	65.823	3.273	96.285	1.00	30.18
ATOM	1933	O	GLY	258	66.403	2.817	95.313	1.00	30.12
ATOM	1934	N	TYR	259	65.749	4.579	96.539	1.00	28.53
ATOM	1935	CA	TYR	259	66.385	5.551	95.642	1.00	26.39
ATOM	1936	CB	TYR	259	65.693	6.909	95.736	1.00	24.46
ATOM	1937	CG	TYR	259	64.368	6.944	95.030	1.00	21.66
ATOM	1938	CD1	TYR	259	63.177	6.948	95.746	1.00	21.42
ATOM	1939	CE1	TYR	259	61.949	6.971	95.098	1.00	20.61
ATOM	1940	CD2	TYR	259	64.303	6.954	93.643	1.00	21.25
ATOM	1941	CE2	TYR	259	63.080	6.976	92.980	1.00	20.47
ATOM	1942	CZ	TYR	259	61.906	6.979	93.717	1.00	21.05

Table_1

ATOM	1943	OH	TYR	259	60.685	6.993	93.077	1.00	22.41
ATOM	1944	C	TYR	259	67.855	5.713	95.984	1.00	26.25
ATOM	1945	O	TYR	259	68.235	5.611	97.145	1.00	25.92
ATOM	1946	N	ILE	260	68.682	5.962	94.976	1.00	26.39
ATOM	1947	CA	ILE	260	70.104	6.128	95.213	1.00	26.76
ATOM	1948	CB	ILE	260	70.923	5.912	93.932	1.00	25.64
ATOM	1949	CG2	ILE	260	72.388	6.199	94.206	1.00	23.78
ATOM	1950	CG1	ILE	260	70.733	4.480	93.429	1.00	24.77
ATOM	1951	CD1	ILE	260	71.585	4.139	92.225	1.00	22.67
ATOM	1952	C	ILE	260	70.370	7.527	95.720	1.00	27.83
ATOM	1953	O	ILE	260	69.943	8.510	95.119	1.00	28.34
ATOM	1954	N	VAL	261	71.068	7.602	96.843	1.00	29.88
ATOM	1955	CA	VAL	261	71.422	8.872	97.442	1.00	30.88
ATOM	1956	CB	VAL	261	71.510	8.743	98.975	1.00	30.97
ATOM	1957	CG1	VAL	261	71.937	10.067	99.593	1.00	32.34
ATOM	1958	CG2	VAL	261	70.164	8.311	99.533	1.00	30.24
ATOM	1959	C	VAL	261	72.785	9.259	96.885	1.00	31.62
ATOM	1960	O	VAL	261	73.748	8.507	97.011	1.00	33.45
ATOM	1961	N	THR	262	72.858	10.421	96.246	1.00	31.59
ATOM	1962	CA	THR	262	74.110	10.898	95.679	1.00	31.64
ATOM	1963	CB	THR	262	74.043	11.011	94.150	1.00	31.78
ATOM	1964	OG1	THR	262	73.231	12.139	93.798	1.00	31.23
ATOM	1965	CG2	THR	262	73.458	9.752	93.539	1.00	31.53
ATOM	1966	C	THR	262	74.393	12.288	96.210	1.00	31.67

Table_1

ATOM	1967	O	THR	262	73.505	12.951	96.748	1.00	31.41
ATOM	1968	N	LYS	263	75.634	12.728	96.066	1.00	31.89
ATOM	1969	CA	LYS	263	75.992	14.062	96.503	1.00	32.19
ATOM	1970	CB	LYS	263	77.451	14.109	96.951	1.00	33.40
ATOM	1971	CG	LYS	263	77.621	14.013	98.464	1.00	36.96
ATOM	1972	CD	LYS	263	78.900	13.282	98.838	1.00	39.38
ATOM	1973	CE	LYS	263	78.831	11.814	98.429	1.00	42.10
ATOM	1974	NZ	LYS	263	79.981	11.013	98.947	1.00	41.17
ATOM	1975	C	LYS	263	75.767	14.979	95.311	1.00	32.21
ATOM	1976	O	LYS	263	75.206	14.562	94.295	1.00	32.70
ATOM	1977	N	ASP	264	76.203	16.224	95.433	1.00	31.53
ATOM	1978	CA	ASP	264	76.045	17.212	94.374	1.00	30.10
ATOM	1979	CB	ASP	264	76.661	18.527	94.833	1.00	31.87
ATOM	1980	CG	ASP	264	78.066	18.340	95.367	1.00	34.25
ATOM	1981	OD1	ASP	264	79.024	18.737	94.671	1.00	35.60
ATOM	1982	OD2	ASP	264	78.209	17.785	96.479	1.00	36.06
ATOM	1983	C	ASP	264	76.709	16.787	93.068	1.00	28.77
ATOM	1984	O	ASP	264	76.209	17.074	91.981	1.00	27.55
ATOM	1985	N	ASP	265	77.849	16.116	93.188	1.00	28.44
ATOM	1986	CA	ASP	265	78.619	15.667	92.031	1.00	27.66
ATOM	1987	CB	ASP	265	80.108	15.687	92.372	1.00	28.36
ATOM	1988	CG	ASP	265	80.391	15.133	93.752	1.00	27.63
ATOM	1989	OD1	ASP	265	81.499	15.372	94.279	1.00	27.86
ATOM	1990	OD2	ASP	265	79.502	14.454	94.309	1.00	25.05

Table_1

ATOM	1991	C	ASP	265	78.226	14.274	91.558	1.00	26.05
ATOM	1992	O	ASP	265	78.985	13.613	90.852	1.00	26.63
ATOM	1993	N	MET	266	77.040	13.836	91.962	1.00	24.87
ATOM	1994	CA	MET	266	76.519	12.527	91.587	1.00	24.58
ATOM	1995	CB	MET	266	76.490	12.387	90.062	1.00	20.49
ATOM	1996	CG	MET	266	75.509	13.326	89.359	1.00	13.32
ATOM	1997	SD	MET	266	73.839	13.298	90.011	1.00	6.28
ATOM	1998	CE	MET	266	73.717	14.942	90.540	1.00	9.31
ATOM	1999	C	MET	266	77.272	11.343	92.197	1.00	26.46
ATOM	2000	O	MET	266	77.084	10.200	91.776	1.00	26.33
ATOM	2001	N	THR	267	78.114	11.606	93.191	1.00	28.85
ATOM	2002	CA	THR	267	78.861	10.533	93.839	1.00	30.97
ATOM	2003	CB	THR	267	80.151	11.056	94.492	1.00	31.24
ATOM	2004	OG1	THR	267	79.835	11.658	95.754	1.00	31.58
ATOM	2005	CG2	THR	267	80.834	12.069	93.594	1.00	29.54
ATOM	2006	C	THR	267	78.029	9.865	94.929	1.00	32.43
ATOM	2007	O	THR	267	77.122	10.478	95.492	1.00	33.52
ATOM	2008	N	THR	268	78.342	8.606	95.223	1.00	33.55
ATOM	2009	CA	THR	268	77.634	7.854	96.256	1.00	34.01
ATOM	2010	CB	THR	268	77.025	6.558	95.692	1.00	34.10
ATOM	2011	OG1	THR	268	78.056	5.787	95.067	1.00	35.01
ATOM	2012	CG2	THR	268	75.951	6.870	94.658	1.00	33.40
ATOM	2013	C	THR	268	78.636	7.488	97.344	1.00	34.34
ATOM	2014	O	THR	268	79.832	7.741	97.200	1.00	34.08

Table_1

ATOM	2015	N	SER	269	78.154	6.885	98.425	1.00	34.63
ATOM	2016	CA	SER	269	79.026	6.505	99.529	1.00	34.28
ATOM	2017	CB	SER	269	78.192	6.089	100.741	1.00	34.18
ATOM	2018	OG	SER	269	77.317	5.025	100.418	1.00	35.19
ATOM	2019	C	SER	269	79.983	5.382	99.149	1.00	34.14
ATOM	2020	O	SER	269	80.651	4.809	100.005	1.00	35.87
ATOM	2021	N	VAL	270	80.040	5.063	97.863	1.00	33.00
ATOM	2022	CA	VAL	270	80.933	4.021	97.374	1.00	31.69
ATOM	2023	CB	VAL	270	80.156	2.850	96.746	1.00	31.69
ATOM	2024	CG1	VAL	270	81.127	1.847	96.145	1.00	30.13
ATOM	2025	CG2	VAL	270	79.280	2.185	97.795	1.00	31.61
ATOM	2026	C	VAL	270	81.819	4.642	96.306	1.00	31.52
ATOM	2027	O	VAL	270	81.330	5.078	95.262	1.00	32.50
ATOM	2028	N	PRO	271	83.135	4.692	96.547	1.00	31.22
ATOM	2029	CD	PRO	271	83.846	4.194	97.740	1.00	29.71
ATOM	2030	CA	PRO	271	84.051	5.280	95.566	1.00	29.98
ATOM	2031	CB	PRO	271	85.425	5.136	96.211	1.00	30.33
ATOM	2032	CG	PRO	271	85.151	4.904	97.664	1.00	30.57
ATOM	2033	C	PRO	271	83.981	4.580	94.220	1.00	30.61
ATOM	2034	O	PRO	271	83.896	3.352	94.155	1.00	30.38
ATOM	2035	N	GLY	272	84.013	5.368	93.150	1.00	29.95
ATOM	2036	CA	GLY	272	83.964	4.806	91.814	1.00	29.33
ATOM	2037	C	GLY	272	82.568	4.546	91.284	1.00	29.43
ATOM	2038	O	GLY	272	82.394	4.312	90.089	1.00	29.40

Table_1

ATOM	2039	N	ILE	273	81.573	4.575	92.164	1.00	28.69
ATOM	2040	CA	ILE	273	80.192	4.348	91.755	1.00	28.11
ATOM	2041	CB	ILE	273	79.512	3.309	92.669	1.00	28.64
ATOM	2042	CG2	ILE	273	78.003	3.354	92.488	1.00	29.47
ATOM	2043	CG1	ILE	273	80.034	1.912	92.328	1.00	29.52
ATOM	2044	CD1	ILE	273	79.318	0.787	93.057	1.00	32.17
ATOM	2045	C	ILE	273	79.413	5.663	91.793	1.00	27.27
ATOM	2046	O	ILE	273	79.390	6.356	92.812	1.00	25.62
ATOM	2047	N	PHE	274	78.779	6.001	90.674	1.00	25.90
ATOM	2048	CA	PHE	274	78.015	7.236	90.564	1.00	25.15
ATOM	2049	CB	PHE	274	78.688	8.162	89.553	1.00	23.61
ATOM	2050	CG	PHE	274	80.128	8.454	89.861	1.00	23.15
ATOM	2051	CD1	PHE	274	80.476	9.593	90.578	1.00	23.50
ATOM	2052	CD2	PHE	274	81.138	7.603	89.425	1.00	22.44
ATOM	2053	CE1	PHE	274	81.808	9.885	90.857	1.00	24.32
ATOM	2054	CE2	PHE	274	82.479	7.886	89.700	1.00	23.04
ATOM	2055	CZ	PHE	274	82.812	9.030	90.417	1.00	23.48
ATOM	2056	C	PHE	274	76.585	6.954	90.120	1.00	25.82
ATOM	2057	O	PHE	274	76.286	5.854	89.663	1.00	26.98
ATOM	2058	N	ALA	275	75.705	7.947	90.250	1.00	25.38
ATOM	2059	CA	ALA	275	74.305	7.799	89.844	1.00	24.84
ATOM	2060	CB	ALA	275	73.439	7.472	91.055	1.00	23.08
ATOM	2061	C	ALA	275	73.778	9.056	89.146	1.00	24.46
ATOM	2062	O	ALA	275	74.268	10.160	89.377	1.00	25.09

Table_1

ATOM	2063	N	ALA	276	72.773	8.886	88.293	1.00	24.36
ATOM	2064	CA	ALA	276	72.201	10.013	87.567	1.00	24.24
ATOM	2065	CB	ALA	276	73.102	10.378	86.393	1.00	22.65
ATOM	2066	C	ALA	276	70.797	9.714	87.060	1.00	24.43
ATOM	2067	O	ALA	276	70.513	8.599	86.631	1.00	24.83
ATOM	2068	N	GLY	277	69.918	10.709	87.111	1.00	24.27
ATOM	2069	CA	GLY	277	68.568	10.511	86.617	1.00	21.33
ATOM	2070	C	GLY	277	67.517	10.217	87.666	1.00	21.61
ATOM	2071	O	GLY	277	67.741	10.423	88.856	1.00	21.43
ATOM	2072	N	ASP	278	66.368	9.723	87.209	1.00	21.85
ATOM	2073	CA	ASP	278	65.234	9.399	88.073	1.00	22.41
ATOM	2074	CB	ASP	278	64.059	8.894	87.232	1.00	21.98
ATOM	2075	CG	ASP	278	63.576	9.912	86.236	1.00	22.91
ATOM	2076	OD1	ASP	278	64.230	10.963	86.092	1.00	23.06
ATOM	2077	OD2	ASP	278	62.539	9.660	85.591	1.00	24.58
ATOM	2078	C	ASP	278	65.509	8.362	89.154	1.00	23.16
ATOM	2079	O	ASP	278	64.761	8.268	90.124	1.00	24.46
ATOM	2080	N	VAL	279	66.568	7.583	88.985	1.00	23.29
ATOM	2081	CA	VAL	279	66.897	6.532	89.936	1.00	23.63
ATOM	2082	CB	VAL	279	67.904	5.555	89.323	1.00	23.95
ATOM	2083	CG1	VAL	279	69.304	6.139	89.382	1.00	20.79
ATOM	2084	CG2	VAL	279	67.833	4.234	90.044	1.00	22.96
ATOM	2085	C	VAL	279	67.442	7.034	91.268	1.00	25.20
ATOM	2086	O	VAL	279	67.591	6.271	92.216	1.00	26.27

Table_1

ATOM	2087	N	ARG	280	67.737	8.326	91.329	1.00	25.99
ATOM	2088	CA	ARG	280	68.263	8.952	92.537	1.00	26.12
ATOM	2089	CB	ARG	280	69.113	10.161	92.187	1.00	26.65
ATOM	2090	CG	ARG	280	70.335	9.930	91.345	1.00	28.48
ATOM	2091	CD	ARG	280	71.030	11.275	91.120	1.00	30.31
ATOM	2092	NE	ARG	280	70.525	12.300	92.034	1.00	32.01
ATOM	2093	CZ	ARG	280	70.240	13.545	91.677	1.00	31.47
ATOM	2094	NH1	ARG	280	69.786	14.400	92.573	1.00	32.72
ATOM	2095	NH2	ARG	280	70.417	13.938	90.428	1.00	33.04
ATOM	2096	C	ARG	280	67.146	9.482	93.410	1.00	25.68
ATOM	2097	O	ARG	280	65.999	9.561	92.984	1.00	25.63
ATOM	2098	N	ASP	281	67.511	9.866	94.631	1.00	25.95
ATOM	2099	CA	ASP	281	66.564	10.489	95.541	1.00	26.34
ATOM	2100	CB	ASP	281	67.091	10.532	96.978	1.00	26.94
ATOM	2101	CG	ASP	281	66.082	11.122	97.936	1.00	31.15
ATOM	2102	OD1	ASP	281	64.948	11.389	97.485	1.00	33.78
ATOM	2103	OD2	ASP	281	66.402	11.326	99.120	1.00	33.61
ATOM	2104	C	ASP	281	66.559	11.891	94.943	1.00	24.99
ATOM	2105	O	ASP	281	67.482	12.663	95.161	1.00	23.12
ATOM	2106	N	LYS	282	65.521	12.197	94.180	1.00	23.92
ATOM	2107	CA	LYS	282	65.421	13.466	93.477	1.00	22.62
ATOM	2108	CB	LYS	282	65.428	13.196	91.974	1.00	22.09
ATOM	2109	CG	LYS	282	66.713	13.505	91.260	1.00	21.70
ATOM	2110	CD	LYS	282	66.534	13.261	89.776	1.00	19.41

Table_1

ATOM	2111	CE	LYS	282	66.730	14.528	88.985	1.00	18.12
ATOM	2112	NZ	LYS	282	67.453	14.256	87.717	1.00	18.69
ATOM	2113	C	LYS	282	64.177	14.263	93.793	1.00	23.01
ATOM	2114	O	LYS	282	63.335	13.871	94.599	1.00	23.46
ATOM	2115	N	GLY	283	64.078	15.393	93.103	1.00	24.70
ATOM	2116	CA	GLY	283	62.945	16.280	93.243	1.00	25.04
ATOM	2117	C	GLY	283	62.141	16.237	91.957	1.00	25.65
ATOM	2118	O	GLY	283	61.108	15.578	91.886	1.00	27.87
ATOM	2119	N	LEU	284	62.617	16.934	90.933	1.00	24.81
ATOM	2120	CA	LEU	284	61.933	16.956	89.651	1.00	23.53
ATOM	2121	CB	LEU	284	62.155	18.301	88.955	1.00	23.33
ATOM	2122	CG	LEU	284	61.529	18.494	87.572	1.00	23.91
ATOM	2123	CD1	LEU	284	60.015	18.321	87.641	1.00	24.83
ATOM	2124	CD2	LEU	284	61.879	19.875	87.070	1.00	23.56
ATOM	2125	C	LEU	284	62.492	15.840	88.788	1.00	23.42
ATOM	2126	O	LEU	284	63.696	15.782	88.543	1.00	23.75
ATOM	2127	N	ARG	285	61.623	14.945	88.336	1.00	22.71
ATOM	2128	CA	ARG	285	62.064	13.847	87.493	1.00	20.80
ATOM	2129	CB	ARG	285	61.509	12.520	88.015	1.00	21.24
ATOM	2130	CG	ARG	285	62.078	12.139	89.379	1.00	20.57
ATOM	2131	CD	ARG	285	61.982	10.648	89.664	1.00	19.84
ATOM	2132	NE	ARG	285	62.799	10.277	90.818	1.00	18.30
ATOM	2133	CZ	ARG	285	62.440	10.481	92.082	1.00	16.66
ATOM	2134	NH1	ARG	285	61.278	11.052	92.353	1.00	15.48

Table_1

ATOM	2135	NH2	ARG	285	63.247	10.135	93.076	1.00	15.50
ATOM	2136	C	ARG	285	61.608	14.103	86.073	1.00	19.62
ATOM	2137	O	ARG	285	60.464	13.832	85.714	1.00	20.45
ATOM	2138	N	GLN	286	62.521	14.640	85.273	1.00	18.38
ATOM	2139	CA	GLN	286	62.251	14.963	83.882	1.00	18.67
ATOM	2140	CB	GLN	286	61.907	16.448	83.751	1.00	18.39
ATOM	2141	CG	GLN	286	60.678	16.867	84.528	1.00	18.95
ATOM	2142	CD	GLN	286	59.396	16.485	83.822	1.00	19.04
ATOM	2143	OE1	GLN	286	58.966	17.160	82.887	1.00	21.01
ATOM	2144	NE2	GLN	286	58.782	15.393	84.259	1.00	18.36
ATOM	2145	C	GLN	286	63.480	14.656	83.037	1.00	19.33
ATOM	2146	O	GLN	286	64.563	14.408	83.566	1.00	21.09
ATOM	2147	N	ILE	287	63.311	14.686	81.722	1.00	19.43
ATOM	2148	CA	ILE	287	64.412	14.415	80.809	1.00	19.99
ATOM	2149	CB	ILE	287	63.958	14.509	79.334	1.00	20.63
ATOM	2150	CG2	ILE	287	65.146	14.311	78.407	1.00	20.80
ATOM	2151	CG1	ILE	287	62.876	13.470	79.046	1.00	20.09
ATOM	2152	CD1	ILE	287	62.142	13.714	77.736	1.00	20.70
ATOM	2153	C	ILE	287	65.531	15.423	81.008	1.00	19.35
ATOM	2154	O	ILE	287	66.709	15.067	81.033	1.00	20.20
ATOM	2155	N	VAL	288	65.150	16.685	81.149	1.00	19.12
ATOM	2156	CA	VAL	288	66.108	17.766	81.309	1.00	17.77
ATOM	2157	CB	VAL	288	65.421	19.132	81.121	1.00	17.82
ATOM	2158	CG1	VAL	288	64.499	19.412	82.284	1.00	15.79

Table_1

ATOM	2159	CG2	VAL	288	66.469	20.225	80.973	1.00	17.46
ATOM	2160	C	VAL	288	66.877	17.762	82.620	1.00	18.24
ATOM	2161	O	VAL	288	67.945	18.363	82.704	1.00	19.10
ATOM	2162	N	THR	289	66.349	17.102	83.647	1.00	18.56
ATOM	2163	CA	THR	289	67.065	17.033	84.916	1.00	17.16
ATOM	2164	CB	THR	289	66.121	16.970	86.128	1.00	17.49
ATOM	2165	OG1	THR	289	65.259	15.837	85.999	1.00	18.35
ATOM	2166	CG2	THR	289	65.293	18.231	86.233	1.00	14.92
ATOM	2167	C	THR	289	67.884	15.752	84.897	1.00	18.09
ATOM	2168	O	THR	289	68.811	15.578	85.688	1.00	19.14
ATOM	2169	N	ALA	290	67.526	14.855	83.986	1.00	17.46
ATOM	2170	CA	ALA	290	68.220	13.588	83.842	1.00	16.41
ATOM	2171	CB	ALA	290	67.310	12.571	83.193	1.00	16.32
ATOM	2172	C	ALA	290	69.452	13.813	82.985	1.00	16.93
ATOM	2173	O	ALA	290	70.531	13.299	83.281	1.00	18.11
ATOM	2174	N	THR	291	69.296	14.587	81.920	1.00	15.33
ATOM	2175	CA	THR	291	70.419	14.872	81.049	1.00	14.76
ATOM	2176	CB	THR	291	69.979	15.665	79.826	1.00	15.74
ATOM	2177	OG1	THR	291	69.300	16.851	80.251	1.00	17.67
ATOM	2178	CG2	THR	291	69.053	14.837	78.967	1.00	14.30
ATOM	2179	C	THR	291	71.446	15.695	81.812	1.00	15.16
ATOM	2180	O	THR	291	72.643	15.584	81.570	1.00	16.97
ATOM	2181	N	GLY	292	70.971	16.526	82.731	1.00	15.89
ATOM	2182	CA	GLY	292	71.869	17.351	83.518	1.00	16.04

Table_1

ATOM	2183	C	GLY	292	72.672	16.496	84.471	1.00	17.52
ATOM	2184	O	GLY	292	73.873	16.693	84.651	1.00	19.18
ATOM	2185	N	ASP	293	71.996	15.536	85.089	1.00	18.08
ATOM	2186	CA	ASP	293	72.640	14.624	86.018	1.00	17.06
ATOM	2187	CB	ASP	293	71.618	13.656	86.596	1.00	17.43
ATOM	2188	CG	ASP	293	70.786	14.268	87.687	1.00	17.44
ATOM	2189	OD1	ASP	293	71.054	15.416	88.086	1.00	17.52
ATOM	2190	OD2	ASP	293	69.853	13.590	88.152	1.00	20.41
ATOM	2191	C	ASP	293	73.698	13.818	85.283	1.00	17.64
ATOM	2192	O	ASP	293	74.785	13.575	85.799	1.00	17.91
ATOM	2193	N	GLY	294	73.362	13.409	84.066	1.00	18.54
ATOM	2194	CA	GLY	294	74.268	12.609	83.264	1.00	18.05
ATOM	2195	C	GLY	294	75.609	13.227	82.948	1.00	18.40
ATOM	2196	O	GLY	294	76.624	12.541	82.958	1.00	19.39
ATOM	2197	N	SER	295	75.621	14.519	82.652	1.00	19.63
ATOM	2198	CA	SER	295	76.862	15.204	82.325	1.00	20.16
ATOM	2199	CB	SER	295	76.554	16.570	81.719	1.00	20.09
ATOM	2200	OG	SER	295	76.055	17.455	82.704	1.00	21.68
ATOM	2201	C	SER	295	77.752	15.368	83.556	1.00	20.30
ATOM	2202	O	SER	295	78.979	15.342	83.455	1.00	20.33
ATOM	2203	N	ILE	296	77.134	15.533	84.719	1.00	19.77
ATOM	2204	CA	ILE	296	77.887	15.695	85.957	1.00	19.71
ATOM	2205	CB	ILE	296	76.997	16.279	87.065	1.00	18.69
ATOM	2206	CG2	ILE	296	77.793	16.434	88.353	1.00	17.10

Table_1

ATOM	2207	CG1	ILE	296	76.460	17.637	86.615	1.00	17.14
ATOM	2208	CD1	ILE	296	75.317	18.142	87.439	1.00	14.59
ATOM	2209	C	ILE	296	78.493	14.379	86.441	1.00	20.96
ATOM	2210	O	ILE	296	79.549	14.373	87.075	1.00	21.80
ATOM	2211	N	ALA	297	77.822	13.268	86.149	1.00	21.32
ATOM	2212	CA	ALA	297	78.318	11.955	86.548	1.00	20.29
ATOM	2213	CB	ALA	297	77.242	10.899	86.335	1.00	19.80
ATOM	2214	C	ALA	297	79.545	11.636	85.706	1.00	19.19
ATOM	2215	O	ALA	297	80.542	11.124	86.210	1.00	20.04
ATOM	2216	N	ALA	298	79.468	11.958	84.421	1.00	18.26
ATOM	2217	CA	ALA	298	80.568	11.718	83.499	1.00	19.33
ATOM	2218	CB	ALA	298	80.165	12.125	82.093	1.00	16.65
ATOM	2219	C	ALA	298	81.790	12.505	83.933	1.00	21.35
ATOM	2220	O	ALA	298	82.902	11.974	83.984	1.00	21.47
ATOM	2221	N	GLN	299	81.581	13.781	84.243	1.00	23.62
ATOM	2222	CA	GLN	299	82.673	14.645	84.671	1.00	24.04
ATOM	2223	CB	GLN	299	82.192	16.094	84.770	1.00	23.84
ATOM	2224	CG	GLN	299	81.937	16.735	83.411	1.00	24.88
ATOM	2225	CD	GLN	299	83.098	16.552	82.447	1.00	25.23
ATOM	2226	OE1	GLN	299	84.202	17.031	82.694	1.00	27.99
ATOM	2227	NE2	GLN	299	82.851	15.861	81.342	1.00	23.94
ATOM	2228	C	GLN	299	83.235	14.183	86.006	1.00	22.47
ATOM	2229	O	GLN	299	84.444	14.086	86.174	1.00	22.03
ATOM	2230	N	SER	300	82.352	13.893	86.953	1.00	23.39

Table_1

ATOM	2231	CA	SER	300	82.775	13.429	88.266	1.00	24.02
ATOM	2232	CB	SER	300	81.560	13.182	89.161	1.00	24.77
ATOM	2233	OG	SER	300	81.054	14.398	89.681	1.00	26.51
ATOM	2234	C	SER	300	83.563	12.134	88.131	1.00	24.35
ATOM	2235	O	SER	300	84.567	11.929	88.818	1.00	24.19
ATOM	2236	N	ALA	301	83.095	11.259	87.245	1.00	23.57
ATOM	2237	CA	ALA	301	83.747	9.977	87.019	1.00	23.11
ATOM	2238	CB	ALA	301	82.859	9.085	86.186	1.00	23.41
ATOM	2239	C	ALA	301	85.093	10.155	86.337	1.00	22.71
ATOM	2240	O	ALA	301	86.035	9.420	86.617	1.00	23.04
ATOM	2241	N	ALA	302	85.184	11.131	85.443	1.00	22.92
ATOM	2242	CA	ALA	302	86.431	11.399	84.736	1.00	23.61
ATOM	2243	CB	ALA	302	86.225	12.512	83.724	1.00	22.96
ATOM	2244	C	ALA	302	87.519	11.796	85.725	1.00	25.34
ATOM	2245	O	ALA	302	88.670	11.370	85.615	1.00	25.69
ATOM	2246	N	GLU	303	87.144	12.624	86.692	1.00	27.26
ATOM	2247	CA	GLU	303	88.076	13.088	87.706	1.00	28.67
ATOM	2248	CB	GLU	303	87.432	14.204	88.530	1.00	28.64
ATOM	2249	CG	GLU	303	87.037	15.413	87.706	1.00	31.10
ATOM	2250	CD	GLU	303	86.512	16.545	88.557	1.00	32.63
ATOM	2251	OE1	GLU	303	86.545	16.417	89.800	1.00	32.30
ATOM	2252	OE2	GLU	303	86.066	17.562	87.984	1.00	32.86
ATOM	2253	C	GLU	303	88.488	11.947	88.616	1.00	29.30
ATOM	2254	O	GLU	303	89.676	11.726	88.850	1.00	29.99

Table_1

ATOM	2255	N	TYR	304	87.502	11.216	89.123	1.00	29.97
ATOM	2256	CA	TYR	304	87.776	10.087	90.005	1.00	30.24
ATOM	2257	CB	TYR	304	86.489	9.318	90.302	1.00	29.24
ATOM	2258	CG	TYR	304	86.738	7.942	90.879	1.00	28.89
ATOM	2259	CD1	TYR	304	86.829	7.751	92.253	1.00	29.48
ATOM	2260	CE1	TYR	304	87.069	6.492	92.792	1.00	29.06
ATOM	2261	CD2	TYR	304	86.892	6.834	90.051	1.00	28.58
ATOM	2262	CE2	TYR	304	87.132	5.575	90.575	1.00	28.61
ATOM	2263	CZ	TYR	304	87.219	5.409	91.946	1.00	28.92
ATOM	2264	OH	TYR	304	87.453	4.160	92.474	1.00	29.61
ATOM	2265	C	TYR	304	88.757	9.164	89.306	1.00	31.59
ATOM	2266	O	TYR	304	89.659	8.610	89.937	1.00	32.51
ATOM	2267	N	ILE	305	88.591	8.998	87.998	1.00	33.04
ATOM	2268	CA	ILE	305	89.483	8.118	87.270	1.00	34.39
ATOM	2269	CB	ILE	305	88.992	7.854	85.844	1.00	34.54
ATOM	2270	CG2	ILE	305	90.118	7.225	85.011	1.00	32.92
ATOM	2271	CG1	ILE	305	87.820	6.885	85.859	1.00	35.71
ATOM	2272	CD1	ILE	305	87.006	6.851	84.584	1.00	34.84
ATOM	2273	C	ILE	305	90.896	8.688	87.237	1.00	36.26
ATOM	2274	O	ILE	305	91.848	7.950	87.456	1.00	37.16
ATOM	2275	N	GLU	306	91.063	9.983	86.987	1.00	37.66
ATOM	2276	CA	GLU	306	92.410	10.541	86.983	1.00	39.35
ATOM	2277	CB	GLU	306	92.396	11.982	86.472	1.00	39.51
ATOM	2278	CG	GLU	306	93.675	12.400	85.727	1.00	41.23

Table_1

ATOM	2279	CD	GLU	306	94.025	11.482	84.583	1.00	42.75
ATOM	2280	OE1	GLU	306	93.115	10.900	83.943	1.00	45.63
ATOM	2281	OE2	GLU	306	95.236	11.347	84.347	1.00	43.08
ATOM	2282	C	GLU	306	92.936	10.451	88.409	1.00	39.98
ATOM	2283	O	GLU	306	94.128	10.305	88.614	1.00	40.46
ATOM	2284	N	HIS	307	92.040	10.475	89.394	1.00	40.44
ATOM	2285	CA	HIS	307	92.488	10.380	90.791	1.00	40.99
ATOM	2286	CB	HIS	307	91.328	10.597	91.761	1.00	42.42
ATOM	2287	CG	HIS	307	91.541	10.038	93.135	1.00	45.88
ATOM	2288	CD2	HIS	307	92.623	10.049	93.950	1.00	46.80
ATOM	2289	ND1	HIS	307	90.540	9.405	93.828	1.00	46.63
ATOM	2290	CE1	HIS	307	90.989	9.048	95.022	1.00	46.79
ATOM	2291	NE2	HIS	307	92.249	9.427	95.120	1.00	47.00
ATOM	2292	C	HIS	307	93.079	8.989	90.971	1.00	41.02
ATOM	2293	O	HIS	307	94.028	8.804	91.729	1.00	40.27
ATOM	2294	N	LEU	308	92.519	8.023	90.249	1.00	41.44
ATOM	2295	CA	LEU	308	92.988	6.648	90.317	1.00	41.16
ATOM	2296	CB	LEU	308	92.049	5.733	89.531	1.00	40.43
ATOM	2297	CG	LEU	308	90.880	5.038	90.240	1.00	39.44
ATOM	2298	CD1	LEU	308	90.210	4.091	89.256	1.00	39.72
ATOM	2299	CD2	LEU	308	91.356	4.271	91.458	1.00	37.76
ATOM	2300	C	LEU	308	94.382	6.565	89.720	1.00	41.51
ATOM	2301	O	LEU	308	95.247	5.870	90.242	1.00	42.70
ATOM	2302	N	ASN	309	94.583	7.265	88.610	1.00	41.74

Table_1

ATOM	2303	CA	ASN	309	95.867	7.276	87.936	1.00	41.53
ATOM	2304	CB	ASN	309	95.710	7.877	86.539	1.00	40.68
ATOM	2305	CG	ASN	309	94.783	7.064	85.657	1.00	41.22
ATOM	2306	OD1	ASN	309	94.467	5.915	85.965	1.00	40.93
ATOM	2307	ND2	ASN	309	94.343	7.656	84.551	1.00	41.21
ATOM	2308	C	ASN	309	96.895	8.066	88.738	1.00	42.04
ATOM	2309	O	ASN	309	98.098	7.897	88.553	1.00	43.22
ATOM	2310	N	ASP	310	96.425	8.931	89.629	1.00	42.16
ATOM	2311	CA	ASP	310	97.330	9.731	90.449	1.00	41.78
ATOM	2312	CB	ASP	310	96.559	10.825	91.188	1.00	41.14
ATOM	2313	CG	ASP	310	96.489	12.118	90.407	1.00	41.32
ATOM	2314	OD1	ASP	310	97.260	12.269	89.435	1.00	39.59
ATOM	2315	OD2	ASP	310	95.661	12.985	90.764	1.00	42.37
ATOM	2316	C	ASP	310	98.032	8.834	91.457	1.00	42.76
ATOM	2317	O	ASP	310	98.100	7.618	91.274	1.00	44.10
ATOM	2318	AP	FAD	500	64.941	6.032	82.290	1.00	24.80
ATOM	2319	AO1	FAD	500	63.911	5.214	83.053	1.00	24.53
ATOM	2320	AO2	FAD	500	64.357	6.923	81.230	1.00	24.39
ATOM	2321	AO5*	FAD	500	66.045	5.100	81.609	1.00	26.38
ATOM	2322	AC5*	FAD	500	66.569	3.994	82.327	1.00	27.84
ATOM	2323	AC1*	FAD	500	67.347	0.577	81.776	1.00	28.99
ATOM	2324	AO4*	FAD	500	67.714	1.887	82.170	1.00	29.72
ATOM	2325	AC2*	FAD	500	65.911	0.718	81.340	1.00	28.75
ATOM	2326	AO2*	FAD	500	65.515	-0.361	80.493	1.00	28.23

Table_1

ATOM	2327	AC3*	FAD	500	65.895	2.116	80.702	1.00	27.94
ATOM	2328	AO3*	FAD	500	66.234	2.109	79.283	1.00	26.33
ATOM	2329	AC4*	FAD	500	66.997	2.879	81.398	1.00	28.47
ATOM	2330	AN9	FAD	500	67.663	-0.248	82.911	1.00	29.15
ATOM	2331	AC8	FAD	500	66.867	-0.151	84.021	1.00	29.29
ATOM	2332	AN7	FAD	500	67.497	-1.113	84.907	1.00	29.61
ATOM	2333	AC5	FAD	500	68.624	-1.739	84.138	1.00	29.54
ATOM	2334	AC6	FAD	500	69.686	-2.780	84.282	1.00	28.80
ATOM	2335	AN6	FAD	500	69.853	-3.467	85.412	1.00	28.14
ATOM	2336	AN1	FAD	500	70.532	-3.060	83.216	1.00	28.08
ATOM	2337	AC2	FAD	500	70.360	-2.380	82.051	1.00	28.31
ATOM	2338	AN3	FAD	500	69.486	-1.435	81.819	1.00	28.34
ATOM	2339	AC4	FAD	500	68.650	-1.181	82.912	1.00	28.84
ATOM	2340	O3P	FAD	500	65.783	6.889	83.287	1.00	25.61
ATOM	2341	N1	FAD	500	59.791	14.036	80.764	1.00	28.39
ATOM	2342	C2	FAD	500	59.724	15.249	80.127	1.00	27.39
ATOM	2343	O2	FAD	500	60.581	16.080	80.271	1.00	28.88
ATOM	2344	N3	FAD	500	58.666	15.496	79.300	1.00	28.79
ATOM	2345	C4	FAD	500	57.633	14.647	79.103	1.00	28.94
ATOM	2346	O4	FAD	500	56.666	14.920	78.398	1.00	30.38
ATOM	2347	C4A	FAD	500	57.682	13.272	79.774	1.00	29.64
ATOM	2348	N5	FAD	500	56.693	12.303	79.596	1.00	30.09
ATOM	2349	C5A	FAD	500	56.774	11.058	80.191	1.00	30.45
ATOM	2350	C6	FAD	500	55.782	10.068	79.936	1.00	30.32

Table_1

ATOM	2351	C7	FAD	500	55.837	8.798	80.590	1.00	30.75
ATOM	2352	C7M	FAD	500	54.776	7.769	80.255	1.00	29.57
ATOM	2353	C8	FAD	500	56.906	8.556	81.531	1.00	30.68
ATOM	2354	C8M	FAD	500	56.849	7.203	82.228	1.00	31.19
ATOM	2355	C9	FAD	500	57.869	9.557	81.735	1.00	30.86
ATOM	2356	C9A	FAD	500	57.845	10.813	81.059	1.00	30.47
ATOM	2357	N10	FAD	500	58.862	11.819	81.251	1.00	29.39
ATOM	2358	C10	FAD	500	58.844	13.060	80.630	1.00	29.04
ATOM	2359	C1*	FAD	500	60.063	11.611	82.141	1.00	27.56
ATOM	2360	C2*	FAD	500	61.335	11.070	81.444	1.00	25.30
ATOM	2361	O2*	FAD	500	61.109	10.096	80.428	1.00	25.43
ATOM	2362	C3*	FAD	500	62.336	10.585	82.550	1.00	25.59
ATOM	2363	O3*	FAD	500	62.487	11.552	83.606	1.00	23.41
ATOM	2364	C4*	FAD	500	63.722	10.215	81.919	1.00	25.64
ATOM	2365	O4*	FAD	500	63.661	9.374	80.764	1.00	28.57
ATOM	2366	C5*	FAD	500	64.635	9.596	82.987	1.00	24.35
ATOM	2367	O5*	FAD	500	65.890	9.356	82.365	1.00	25.03
ATOM	2368	P	FAD	500	66.687	8.249	83.077	1.00	25.98
ATOM	2369	O1P	FAD	500	67.867	7.951	82.174	1.00	26.19
ATOM	2370	O2P	FAD	500	67.105	8.791	84.434	1.00	26.43
ATOM	2371	N	ASP	1006	53.057	43.329	86.752	1.00	31.17
ATOM	2372	CA	ASP	1006	52.820	42.240	87.693	1.00	30.13
ATOM	2373	CB	ASP	1006	51.486	42.449	88.406	1.00	31.43
ATOM	2374	CG	ASP	1006	51.245	41.433	89.499	1.00	32.47

Table_1

ATOM	2375	OD1	ASP	1006	50.468	40.488	89.255	1.00	33.97
ATOM	2376	OD2	ASP	1006	51.825	41.578	90.599	1.00	32.93
ATOM	2377	C	ASP	1006	52.823	40.875	87.007	1.00	29.63
ATOM	2378	O	ASP	1006	52.099	40.647	86.037	1.00	29.23
ATOM	2379	N	PHE	1007	53.644	39.968	87.525	1.00	28.01
ATOM	2380	CA	PHE	1007	53.762	38.621	86.980	1.00	25.61
ATOM	2381	CB	PHE	1007	55.019	38.513	86.110	1.00	24.97
ATOM	2382	CG	PHE	1007	54.921	39.232	84.794	1.00	23.49
ATOM	2383	CD1	PHE	1007	55.314	40.561	84.680	1.00	23.07
ATOM	2384	CD2	PHE	1007	54.478	38.569	83.655	1.00	22.57
ATOM	2385	CE1	PHE	1007	55.265	41.217	83.447	1.00	21.55
ATOM	2386	CE2	PHE	1007	54.427	39.218	82.422	1.00	21.18
ATOM	2387	CZ	PHE	1007	54.824	40.543	82.320	1.00	19.13
ATOM	2388	C	PHE	1007	53.879	37.636	88.138	1.00	24.30
ATOM	2389	O	PHE	1007	54.153	38.034	89.269	1.00	23.22
ATOM	2390	N	ASP	1008	53.672	36.354	87.863	1.00	24.10
ATOM	2391	CA	ASP	1008	53.798	35.343	88.905	1.00	24.26
ATOM	2392	CB	ASP	1008	53.097	34.050	88.496	1.00	24.68
ATOM	2393	CG	ASP	1008	51.593	34.192	88.452	1.00	25.71
ATOM	2394	OD1	ASP	1008	51.000	34.620	89.466	1.00	26.04
ATOM	2395	OD2	ASP	1008	51.004	33.874	87.399	1.00	24.48
ATOM	2396	C	ASP	1008	55.279	35.060	89.102	1.00	24.42
ATOM	2397	O	ASP	1008	55.759	34.940	90.231	1.00	24.45
ATOM	2398	N	ILE	1009	55.995	34.964	87.984	1.00	24.23

Table_1

ATOM	2399	CA	ILE	1009	57.423	34.692	87.993	1.00	24.13
ATOM	2400	CB	ILE	1009	57.721	33.254	87.560	1.00	24.86
ATOM	2401	CG2	ILE	1009	59.220	33.060	87.422	1.00	23.34
ATOM	2402	CG1	ILE	1009	57.148	32.272	88.576	1.00	26.66
ATOM	2403	CD1	ILE	1009	57.172	30.838	88.104	1.00	26.58
ATOM	2404	C	ILE	1009	58.174	35.606	87.042	1.00	24.63
ATOM	2405	O	ILE	1009	57.802	35.747	85.878	1.00	24.43
ATOM	2406	N	ALA	1010	59.238	36.220	87.549	1.00	23.97
ATOM	2407	CA	ALA	1010	60.078	37.104	86.754	1.00	22.02
ATOM	2408	CB	ALA	1010	60.248	38.442	87.452	1.00	23.57
ATOM	2409	C	ALA	1010	61.419	36.408	86.632	1.00	20.19
ATOM	2410	O	ALA	1010	62.026	36.038	87.632	1.00	19.56
ATOM	2411	N	ILE	1011	61.879	36.210	85.405	1.00	18.65
ATOM	2412	CA	ILE	1011	63.154	35.544	85.204	1.00	18.84
ATOM	2413	CB	ILE	1011	63.042	34.420	84.166	1.00	18.67
ATOM	2414	CG2	ILE	1011	64.429	33.854	83.866	1.00	18.13
ATOM	2415	CG1	ILE	1011	62.107	33.328	84.682	1.00	17.32
ATOM	2416	CD1	ILE	1011	61.300	32.676	83.595	1.00	19.27
ATOM	2417	C	ILE	1011	64.204	36.526	84.730	1.00	18.12
ATOM	2418	O	ILE	1011	64.068	37.124	83.668	1.00	18.37
ATOM	2419	N	ILE	1012	65.259	36.692	85.514	1.00	17.61
ATOM	2420	CA	ILE	1012	66.308	37.616	85.127	1.00	18.00
ATOM	2421	CB	ILE	1012	66.897	38.338	86.358	1.00	18.07
ATOM	2422	CG2	ILE	1012	67.829	39.443	85.914	1.00	18.42

Table_1

ATOM	2423	CG1	ILE	1012	65.766	38.956	87.181	1.00	17.14
ATOM	2424	CD1	ILE	1012	66.239	39.761	88.356	1.00	15.70
ATOM	2425	C	ILE	1012	67.409	36.879	84.383	1.00	17.83
ATOM	2426	O	ILE	1012	68.320	36.322	84.990	1.00	18.89
ATOM	2427	N	GLY	1013	67.306	36.876	83.059	1.00	18.16
ATOM	2428	CA	GLY	1013	68.294	36.209	82.232	1.00	18.31
ATOM	2429	C	GLY	1013	67.641	35.320	81.189	1.00	18.24
ATOM	2430	O	GLY	1013	66.819	34.468	81.526	1.00	17.96
ATOM	2431	N	ALA	1014	68.002	35.514	79.924	1.00	16.82
ATOM	2432	CA	ALA	1014	67.436	34.717	78.843	1.00	17.88
ATOM	2433	CB	ALA	1014	66.847	35.629	77.776	1.00	17.33
ATOM	2434	C	ALA	1014	68.441	33.759	78.209	1.00	17.94
ATOM	2435	O	ALA	1014	68.471	33.593	76.995	1.00	17.92
ATOM	2436	N	GLY	1015	69.272	33.140	79.036	1.00	19.55
ATOM	2437	CA	GLY	1015	70.232	32.182	78.529	1.00	20.68
ATOM	2438	C	GLY	1015	69.563	30.824	78.595	1.00	21.54
ATOM	2439	O	GLY	1015	68.336	30.763	78.700	1.00	23.43
ATOM	2440	N	PRO	1016	70.316	29.714	78.541	1.00	21.02
ATOM	2441	CD	PRO	1016	71.774	29.577	78.406	1.00	20.66
ATOM	2442	CA	PRO	1016	69.629	28.418	78.608	1.00	20.41
ATOM	2443	CB	PRO	1016	70.745	27.391	78.386	1.00	20.11
ATOM	2444	CG	PRO	1016	72.008	28.108	78.638	1.00	20.76
ATOM	2445	C	PRO	1016	68.868	28.189	79.915	1.00	18.59
ATOM	2446	O	PRO	1016	67.769	27.633	79.908	1.00	19.10

Table_1

ATOM	2447	N	ALA	1017	69.441	28.624	81.030	1.00	17.81
ATOM	2448	CA	ALA	1017	68.788	28.466	82.322	1.00	17.78
ATOM	2449	CB	ALA	1017	69.704	28.932	83.433	1.00	16.98
ATOM	2450	C	ALA	1017	67.508	29.284	82.332	1.00	19.14
ATOM	2451	O	ALA	1017	66.427	28.776	82.631	1.00	21.01
ATOM	2452	N	GLY	1018	67.638	30.561	81.998	1.00	18.37
ATOM	2453	CA	GLY	1018	66.481	31.427	81.978	1.00	15.64
ATOM	2454	C	GLY	1018	65.420	30.977	80.999	1.00	14.81
ATOM	2455	O	GLY	1018	64.229	31.018	81.311	1.00	15.34
ATOM	2456	N	MET	1019	65.836	30.543	79.816	1.00	13.06
ATOM	2457	CA	MET	1019	64.878	30.115	78.808	1.00	13.90
ATOM	2458	CB	MET	1019	65.575	29.997	77.446	1.00	11.54
ATOM	2459	CG	MET	1019	65.717	31.348	76.756	1.00	6.17
ATOM	2460	SD	MET	1019	66.310	31.336	75.082	1.00	2.46
ATOM	2461	CE	MET	1019	67.940	30.878	75.299	1.00	5.67
ATOM	2462	C	MET	1019	64.156	28.817	79.167	1.00	16.60
ATOM	2463	O	MET	1019	63.031	28.577	78.722	1.00	17.23
ATOM	2464	N	THR	1020	64.788	27.984	79.982	1.00	17.83
ATOM	2465	CA	THR	1020	64.168	26.725	80.379	1.00	19.43
ATOM	2466	CB	THR	1020	65.214	25.719	80.867	1.00	18.44
ATOM	2467	OG1	THR	1020	66.217	25.558	79.859	1.00	16.27
ATOM	2468	CG2	THR	1020	64.564	24.377	81.141	1.00	18.80
ATOM	2469	C	THR	1020	63.141	26.952	81.480	1.00	19.34
ATOM	2470	O	THR	1020	62.123	26.262	81.550	1.00	19.58

Table_1

ATOM	2471	N	ALA	1021	63.418	27.914	82.350	1.00	19.84
ATOM	2472	CA	ALA	1021	62.497	28.229	83.424	1.00	20.08
ATOM	2473	CB	ALA	1021	63.116	29.242	84.372	1.00	19.42
ATOM	2474	C	ALA	1021	61.243	28.807	82.797	1.00	20.36
ATOM	2475	O	ALA	1021	60.143	28.653	83.320	1.00	22.30
ATOM	2476	N	ALA	1022	61.424	29.468	81.661	1.00	20.33
ATOM	2477	CA	ALA	1022	60.323	30.095	80.935	1.00	20.34
ATOM	2478	CB	ALA	1022	60.883	30.994	79.832	1.00	19.34
ATOM	2479	C	ALA	1022	59.399	29.072	80.315	1.00	20.66
ATOM	2480	O	ALA	1022	58.181	29.246	80.309	1.00	20.89
ATOM	2481	N	VAL	1023	59.999	28.019	79.775	1.00	20.81
ATOM	2482	CA	VAL	1023	59.234	26.971	79.133	1.00	21.34
ATOM	2483	CB	VAL	1023	60.158	25.979	78.414	1.00	21.54
ATOM	2484	CG1	VAL	1023	59.335	24.817	77.892	1.00	22.00
ATOM	2485	CG2	VAL	1023	60.909	26.672	77.307	1.00	19.10
ATOM	2486	C	VAL	1023	58.418	26.209	80.155	1.00	21.89
ATOM	2487	O	VAL	1023	57.273	25.844	79.901	1.00	21.60
ATOM	2488	N	TYR	1024	58.997	25.975	81.323	1.00	22.13
ATOM	2489	CA	TYR	1024	58.317	25.226	82.371	1.00	23.03
ATOM	2490	CB	TYR	1024	59.357	24.663	83.340	1.00	23.05
ATOM	2491	CG	TYR	1024	59.807	23.258	82.977	1.00	24.26
ATOM	2492	CD1	TYR	1024	60.688	23.037	81.915	1.00	23.38
ATOM	2493	CE1	TYR	1024	61.059	21.745	81.542	1.00	23.47
ATOM	2494	CD2	TYR	1024	59.324	22.151	83.669	1.00	23.42

Table_1

ATOM	2495	CE2	TYR	1024	59.690	20.860	83.302	1.00	23.85
ATOM	2496	CZ	TYR	1024	60.556	20.664	82.246	1.00	23.36
ATOM	2497	OH	TYR	1024	60.881	19.376	81.892	1.00	23.21
ATOM	2498	C	TYR	1024	57.278	26.041	83.124	1.00	23.80
ATOM	2499	O	TYR	1024	56.186	25.556	83.433	1.00	22.79
ATOM	2500	N	ALA	1025	57.630	27.289	83.399	1.00	24.09
ATOM	2501	CA	ALA	1025	56.770	28.205	84.119	1.00	24.52
ATOM	2502	CB	ALA	1025	57.551	29.453	84.469	1.00	24.28
ATOM	2503	C	ALA	1025	55.518	28.572	83.329	1.00	24.73
ATOM	2504	O	ALA	1025	54.424	28.608	83.887	1.00	25.34
ATOM	2505	N	SER	1026	55.671	28.840	82.036	1.00	24.48
ATOM	2506	CA	SER	1026	54.525	29.216	81.218	1.00	25.18
ATOM	2507	CB	SER	1026	54.974	29.998	79.990	1.00	24.52
ATOM	2508	OG	SER	1026	56.030	29.326	79.344	1.00	25.61
ATOM	2509	C	SER	1026	53.715	28.008	80.782	1.00	26.31
ATOM	2510	O	SER	1026	52.509	28.113	80.548	1.00	27.61
ATOM	2511	N	ARG	1027	54.376	26.863	80.659	1.00	25.64
ATOM	2512	CA	ARG	1027	53.684	25.645	80.270	1.00	24.44
ATOM	2513	CB	ARG	1027	54.680	24.492	80.117	1.00	24.99
ATOM	2514	CG	ARG	1027	54.035	23.138	79.863	1.00	26.29
ATOM	2515	CD	ARG	1027	54.919	22.249	79.003	1.00	26.71
ATOM	2516	NE	ARG	1027	54.139	21.283	78.235	1.00	29.23
ATOM	2517	CZ	ARG	1027	53.884	20.038	78.632	1.00	30.42
ATOM	2518	NH1	ARG	1027	53.163	19.227	77.866	1.00	29.18

Table_1

ATOM	2519	NH2	ARG	1027	54.351	19.601	79.794	1.00	30.16
ATOM	2520	C	ARG	1027	52.704	25.353	81.396	1.00	23.41
ATOM	2521	O	ARG	1027	51.660	24.736	81.193	1.00	23.46
ATOM	2522	N	ALA	1028	53.061	25.819	82.588	1.00	22.01
ATOM	2523	CA	ALA	1028	52.240	25.641	83.777	1.00	22.27
ATOM	2524	CB	ALA	1028	53.122	25.619	85.021	1.00	20.76
ATOM	2525	C	ALA	1028	51.231	26.782	83.869	1.00	22.50
ATOM	2526	O	ALA	1028	50.506	26.908	84.856	1.00	21.75
ATOM	2527	N	ASN	1029	51.203	27.610	82.832	1.00	23.64
ATOM	2528	CA	ASN	1029	50.287	28.735	82.759	1.00	25.84
ATOM	2529	CB	ASN	1029	48.843	28.239	82.802	1.00	27.72
ATOM	2530	CG	ASN	1029	48.339	27.806	81.444	1.00	29.06
ATOM	2531	OD1	ASN	1029	49.042	27.922	80.439	1.00	30.54
ATOM	2532	ND2	ASN	1029	47.114	27.301	81.406	1.00	29.06
ATOM	2533	C	ASN	1029	50.492	29.794	83.836	1.00	26.91
ATOM	2534	O	ASN	1029	49.536	30.452	84.262	1.00	27.73
ATOM	2535	N	LEU	1030	51.729	29.948	84.298	1.00	26.51
ATOM	2536	CA	LEU	1030	52.022	30.976	85.291	1.00	27.30
ATOM	2537	CB	LEU	1030	53.216	30.579	86.158	1.00	28.51
ATOM	2538	CG	LEU	1030	53.080	29.316	87.004	1.00	30.32
ATOM	2539	CD1	LEU	1030	54.404	28.981	87.668	1.00	31.87
ATOM	2540	CD2	LEU	1030	52.015	29.547	88.046	1.00	31.77
ATOM	2541	C	LEU	1030	52.375	32.202	84.471	1.00	27.79
ATOM	2542	O	LEU	1030	52.942	32.073	83.390	1.00	27.11

Table_1

ATOM	2543	N	LYS	1031	52.035	33.389	84.961	1.00	29.88
ATOM	2544	CA	LYS	1031	52.338	34.614	84.229	1.00	31.13
ATOM	2545	CB	LYS	1031	51.519	35.768	84.802	1.00	34.20
ATOM	2546	CG	LYS	1031	50.063	35.717	84.313	1.00	37.17
ATOM	2547	CD	LYS	1031	49.283	36.990	84.582	1.00	41.45
ATOM	2548	CE	LYS	1031	47.800	36.798	84.257	1.00	44.20
ATOM	2549	NZ	LYS	1031	47.011	38.024	84.572	1.00	47.32
ATOM	2550	C	LYS	1031	53.839	34.821	84.356	1.00	29.68
ATOM	2551	O	LYS	1031	54.352	35.091	85.441	1.00	30.27
ATOM	2552	N	THR	1032	54.546	34.672	83.240	1.00	28.36
ATOM	2553	CA	THR	1032	55.997	34.760	83.235	1.00	27.38
ATOM	2554	CB	THR	1032	56.570	33.387	82.864	1.00	27.88
ATOM	2555	OG1	THR	1032	56.092	32.415	83.795	1.00	27.17
ATOM	2556	CG2	THR	1032	58.092	33.383	82.895	1.00	28.97
ATOM	2557	C	THR	1032	56.610	35.800	82.304	1.00	25.82
ATOM	2558	O	THR	1032	56.014	36.158	81.292	1.00	24.70
ATOM	2559	N	VAL	1033	57.823	36.248	82.632	1.00	25.06
ATOM	2560	CA	VAL	1033	58.548	37.225	81.819	1.00	23.65
ATOM	2561	CB	VAL	1033	58.256	38.684	82.270	1.00	23.09
ATOM	2562	CG1	VAL	1033	58.480	38.809	83.759	1.00	23.27
ATOM	2563	CG2	VAL	1033	59.156	39.672	81.518	1.00	20.82
ATOM	2564	C	VAL	1033	60.052	36.993	81.922	1.00	22.47
ATOM	2565	O	VAL	1033	60.571	36.744	83.008	1.00	23.18
ATOM	2566	N	MET	1034	60.736	37.054	80.785	1.00	22.22

Table_1

ATOM	2567	CA	MET	1034	62.187	36.883	80.732	1.00	22.83
ATOM	2568	CB	MET	1034	62.598	35.999	79.548	1.00	21.45
ATOM	2569	CG	MET	1034	62.372	34.504	79.687	1.00	18.77
ATOM	2570	SD	MET	1034	62.860	33.667	78.145	1.00	11.94
ATOM	2571	CE	MET	1034	61.445	33.983	77.131	1.00	10.71
ATOM	2572	C	MET	1034	62.763	38.277	80.490	1.00	22.98
ATOM	2573	O	MET	1034	62.346	38.959	79.558	1.00	22.98
ATOM	2574	N	ILE	1035	63.712	38.707	81.312	1.00	23.70
ATOM	2575	CA	ILE	1035	64.313	40.026	81.122	1.00	23.86
ATOM	2576	CB	ILE	1035	64.257	40.857	82.422	1.00	23.38
ATOM	2577	CG2	ILE	1035	64.831	42.250	82.176	1.00	23.02
ATOM	2578	CG1	ILE	1035	62.803	40.965	82.902	1.00	21.96
ATOM	2579	CD1	ILE	1035	62.633	40.890	84.405	1.00	18.24
ATOM	2580	C	ILE	1035	65.761	39.855	80.672	1.00	24.19
ATOM	2581	O	ILE	1035	66.568	39.252	81.377	1.00	24.82
ATOM	2582	N	GLU	1036	66.080	40.390	79.496	1.00	24.21
ATOM	2583	CA	GLU	1036	67.417	40.272	78.919	1.00	24.02
ATOM	2584	CB	GLU	1036	67.350	39.305	77.729	1.00	24.44
ATOM	2585	CG	GLU	1036	68.653	39.092	76.987	1.00	25.88
ATOM	2586	CD	GLU	1036	69.732	38.497	77.865	1.00	26.20
ATOM	2587	OE1	GLU	1036	69.538	37.373	78.373	1.00	27.51
ATOM	2588	OE2	GLU	1036	70.777	39.152	78.048	1.00	25.41
ATOM	2589	C	GLU	1036	68.017	41.616	78.476	1.00	23.85
ATOM	2590	O	GLU	1036	67.379	42.379	77.756	1.00	23.10

Table_1

ATOM	2591	N	ARG	1037	69.248	41.891	78.907	1.00	23.89
ATOM	2592	CA	ARG	1037	69.941	43.133	78.557	1.00	24.72
ATOM	2593	CB	ARG	1037	70.936	43.519	79.656	1.00	23.65
ATOM	2594	CG	ARG	1037	71.753	42.348	80.184	1.00	24.94
ATOM	2595	CD	ARG	1037	73.189	42.735	80.523	1.00	22.80
ATOM	2596	NE	ARG	1037	73.386	42.925	81.958	1.00	23.94
ATOM	2597	CZ	ARG	1037	74.513	42.649	82.605	1.00	23.15
ATOM	2598	NH1	ARG	1037	75.550	42.155	81.950	1.00	24.88
ATOM	2599	NH2	ARG	1037	74.604	42.865	83.910	1.00	23.68
ATOM	2600	C	ARG	1037	70.692	42.984	77.236	1.00	25.63
ATOM	2601	O	ARG	1037	71.269	43.943	76.717	1.00	24.63
ATOM	2602	N	GLY	1038	70.686	41.772	76.696	1.00	26.22
ATOM	2603	CA	GLY	1038	71.377	41.532	75.448	1.00	24.94
ATOM	2604	C	GLY	1038	70.591	40.657	74.498	1.00	24.63
ATOM	2605	O	GLY	1038	69.402	40.870	74.271	1.00	24.73
ATOM	2606	N	ILE	1039	71.272	39.659	73.951	1.00	25.63
ATOM	2607	CA	ILE	1039	70.682	38.729	73.001	1.00	25.25
ATOM	2608	CB	ILE	1039	71.688	38.420	71.876	1.00	25.61
ATOM	2609	CG2	ILE	1039	71.230	37.227	71.067	1.00	27.49
ATOM	2610	CG1	ILE	1039	71.860	39.651	70.991	1.00	26.61
ATOM	2611	CD1	ILE	1039	70.642	39.979	70.166	1.00	28.53
ATOM	2612	C	ILE	1039	70.294	37.423	73.685	1.00	24.19
ATOM	2613	O	ILE	1039	71.075	36.866	74.454	1.00	24.58
ATOM	2614	N	PRO	1040	69.079	36.924	73.421	1.00	22.74

Table_1

ATOM	2615	CD	PRO	1040	68.044	37.504	72.546	1.00	22.79
ATOM	2616	CA	PRO	1040	68.640	35.667	74.035	1.00	22.46
ATOM	2617	CB	PRO	1040	67.255	35.423	73.435	1.00	21.32
ATOM	2618	CG	PRO	1040	66.805	36.754	72.943	1.00	21.52
ATOM	2619	C	PRO	1040	69.620	34.550	73.674	1.00	22.32
ATOM	2620	O	PRO	1040	70.050	34.435	72.523	1.00	21.13
ATOM	2621	N	GLY	1041	69.968	33.732	74.657	1.00	21.37
ATOM	2622	CA	GLY	1041	70.904	32.654	74.411	1.00	22.35
ATOM	2623	C	GLY	1041	72.098	32.769	75.337	1.00	22.29
ATOM	2624	O	GLY	1041	72.790	31.788	75.598	1.00	23.59
ATOM	2625	N	GLY	1042	72.342	33.971	75.844	1.00	21.85
ATOM	2626	CA	GLY	1042	73.460	34.159	76.746	1.00	21.36
ATOM	2627	C	GLY	1042	74.788	33.845	76.093	1.00	22.15
ATOM	2628	O	GLY	1042	75.107	34.388	75.042	1.00	23.55
ATOM	2629	N	GLN	1043	75.567	32.963	76.706	1.00	23.21
ATOM	2630	CA	GLN	1043	76.868	32.605	76.156	1.00	23.61
ATOM	2631	CB	GLN	1043	77.708	31.887	77.212	1.00	26.25
ATOM	2632	CG	GLN	1043	77.988	32.709	78.459	1.00	31.83
ATOM	2633	CD	GLN	1043	78.343	34.153	78.145	1.00	36.89
ATOM	2634	OE1	GLN	1043	78.801	34.470	77.043	1.00	39.25
ATOM	2635	NE2	GLN	1043	78.131	35.040	79.116	1.00	39.28
ATOM	2636	C	GLN	1043	76.744	31.731	74.915	1.00	23.24
ATOM	2637	O	GLN	1043	77.636	31.722	74.061	1.00	22.57
ATOM	2638	N	MET	1044	75.641	30.992	74.822	1.00	22.52

Table_1

ATOM	2639	CA	MET	1044	75.403	30.119	73.675	1.00	22.72
ATOM	2640	CB	MET	1044	74.000	29.500	73.750	1.00	20.21
ATOM	2641	CG	MET	1044	73.841	28.365	74.756	1.00	14.39
ATOM	2642	SD	MET	1044	72.398	27.345	74.457	1.00	4.53
ATOM	2643	CE	MET	1044	71.162	28.534	74.257	1.00	10.32
ATOM	2644	C	MET	1044	75.510	30.959	72.409	1.00	24.33
ATOM	2645	O	MET	1044	76.146	30.566	71.433	1.00	26.76
ATOM	2646	N	ALA	1045	74.878	32.126	72.443	1.00	24.55
ATOM	2647	CA	ALA	1045	74.880	33.038	71.313	1.00	25.30
ATOM	2648	CB	ALA	1045	74.069	34.277	71.655	1.00	24.67
ATOM	2649	C	ALA	1045	76.294	33.432	70.902	1.00	25.80
ATOM	2650	O	ALA	1045	76.527	33.811	69.756	1.00	24.72
ATOM	2651	N	ASN	1046	77.235	33.343	71.836	1.00	27.43
ATOM	2652	CA	ASN	1046	78.619	33.699	71.547	1.00	28.92
ATOM	2653	CB	ASN	1046	79.256	34.406	72.745	1.00	30.60
ATOM	2654	CG	ASN	1046	78.558	35.705	73.094	1.00	32.84
ATOM	2655	OD1	ASN	1046	78.214	36.495	72.211	1.00	33.08
ATOM	2656	ND2	ASN	1046	78.342	35.934	74.387	1.00	32.68
ATOM	2657	C	ASN	1046	79.420	32.456	71.220	1.00	29.25
ATOM	2658	O	ASN	1046	80.625	32.528	70.985	1.00	29.27
ATOM	2659	N	THR	1047	78.741	31.314	71.211	1.00	29.67
ATOM	2660	CA	THR	1047	79.388	30.043	70.917	1.00	29.54
ATOM	2661	CB	THR	1047	78.869	28.943	71.834	1.00	28.51
ATOM	2662	OG1	THR	1047	79.123	29.310	73.193	1.00	28.32

Table_1

ATOM	2663	CG2	THR	1047	79.567	27.629	71.531	1.00	28.56
ATOM	2664	C	THR	1047	79.155	29.638	69.474	1.00	30.13
ATOM	2665	O	THR	1047	78.033	29.690	68.978	1.00	31.44
ATOM	2666	N	GLU	1048	80.228	29.219	68.814	1.00	30.97
ATOM	2667	CA	GLU	1048	80.181	28.828	67.413	1.00	33.11
ATOM	2668	CB	GLU	1048	81.596	28.815	66.835	1.00	35.44
ATOM	2669	CG	GLU	1048	82.382	30.082	67.100	1.00	39.81
ATOM	2670	CD	GLU	1048	82.265	31.078	65.968	1.00	42.36
ATOM	2671	OE1	GLU	1048	83.049	32.051	65.951	1.00	44.94
ATOM	2672	OE2	GLU	1048	81.390	30.889	65.094	1.00	44.05
ATOM	2673	C	GLU	1048	79.534	27.487	67.125	1.00	32.22
ATOM	2674	O	GLU	1048	78.683	27.373	66.247	1.00	31.76
ATOM	2675	N	GLU	1049	79.955	26.464	67.854	1.00	32.78
ATOM	2676	CA	GLU	1049	79.429	25.131	67.633	1.00	32.99
ATOM	2677	CB	GLU	1049	80.322	24.384	66.642	1.00	34.34
ATOM	2678	CG	GLU	1049	80.585	25.146	65.354	1.00	37.12
ATOM	2679	CD	GLU	1049	81.502	24.397	64.415	1.00	38.96
ATOM	2680	OE1	GLU	1049	82.306	23.574	64.901	1.00	39.39
ATOM	2681	OE2	GLU	1049	81.419	24.634	63.192	1.00	39.62
ATOM	2682	C	GLU	1049	79.336	24.334	68.916	1.00	32.07
ATOM	2683	O	GLU	1049	80.335	24.127	69.606	1.00	32.32
ATOM	2684	N	VAL	1050	78.129	23.889	69.234	1.00	30.67
ATOM	2685	CA	VAL	1050	77.914	23.092	70.425	1.00	29.09
ATOM	2686	CB	VAL	1050	76.617	23.494	71.145	1.00	28.94

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Table_1

ATOM	2687	CG1	VAL	1050	76.543	22.808	72.492	1.00	28.08
ATOM	2688	CG2	VAL	1050	76.562	25.005	71.314	1.00	28.70
ATOM	2689	C	VAL	1050	77.793	21.663	69.939	1.00	28.51
ATOM	2690	O	VAL	1050	77.053	21.385	68.994	1.00	28.23
ATOM	2691	N	GLU	1051	78.531	20.759	70.568	1.00	28.00
ATOM	2692	CA	GLU	1051	78.489	19.362	70.170	1.00	26.45
ATOM	2693	CB	GLU	1051	79.808	18.966	69.499	1.00	26.37
ATOM	2694	CG	GLU	1051	79.978	19.548	68.094	1.00	28.01
ATOM	2695	CD	GLU	1051	80.928	18.742	67.227	1.00	29.42
ATOM	2696	OE1	GLU	1051	81.023	19.035	66.014	1.00	28.46
ATOM	2697	OE2	GLU	1051	81.581	17.815	67.758	1.00	30.97
ATOM	2698	C	GLU	1051	78.217	18.464	71.363	1.00	25.86
ATOM	2699	O	GLU	1051	78.286	17.242	71.257	1.00	26.16
ATOM	2700	N	ASN	1052	77.897	19.066	72.503	1.00	25.55
ATOM	2701	CA	ASN	1052	77.622	18.266	73.683	1.00	24.76
ATOM	2702	CB	ASN	1052	78.744	18.417	74.714	1.00	24.51
ATOM	2703	CG	ASN	1052	78.998	19.845	75.085	1.00	24.40
ATOM	2704	OD1	ASN	1052	78.211	20.730	74.748	1.00	25.78
ATOM	2705	ND2	ASN	1052	80.101	20.089	75.785	1.00	22.73
ATOM	2706	C	ASN	1052	76.272	18.505	74.346	1.00	24.16
ATOM	2707	O	ASN	1052	76.096	18.182	75.520	1.00	23.28
ATOM	2708	N	PHE	1053	75.314	19.078	73.621	1.00	23.75
ATOM	2709	CA	PHE	1053	73.995	19.237	74.216	1.00	21.98
ATOM	2710	CB	PHE	1053	73.297	20.540	73.802	1.00	20.14

Table_1

ATOM	2711	CG	PHE	1053	71.977	20.744	74.498	1.00	18.18
ATOM	2712	CD1	PHE	1053	71.923	20.936	75.873	1.00	18.44
ATOM	2713	CD2	PHE	1053	70.784	20.653	73.796	1.00	17.37
ATOM	2714	CE1	PHE	1053	70.697	21.025	76.539	1.00	16.86
ATOM	2715	CE2	PHE	1053	69.561	20.742	74.451	1.00	16.97
ATOM	2716	CZ	PHE	1053	69.519	20.926	75.823	1.00	15.91
ATOM	2717	C	PHE	1053	73.195	18.039	73.721	1.00	21.22
ATOM	2718	O	PHE	1053	72.996	17.858	72.518	1.00	20.08
ATOM	2719	N	PRO	1054	72.740	17.192	74.657	1.00	21.64
ATOM	2720	CD	PRO	1054	72.956	17.415	76.091	1.00	21.41
ATOM	2721	CA	PRO	1054	71.962	15.970	74.423	1.00	21.42
ATOM	2722	CB	PRO	1054	71.380	15.644	75.803	1.00	22.63
ATOM	2723	CG	PRO	1054	71.724	16.827	76.683	1.00	23.15
ATOM	2724	C	PRO	1054	70.868	16.064	73.369	1.00	20.53
ATOM	2725	O	PRO	1054	69.773	16.553	73.638	1.00	21.24
ATOM	2726	N	GLY	1055	71.161	15.577	72.169	1.00	18.84
ATOM	2727	CA	GLY	1055	70.164	15.616	71.117	1.00	18.08
ATOM	2728	C	GLY	1055	70.630	16.360	69.888	1.00	17.66
ATOM	2729	O	GLY	1055	70.029	16.237	68.825	1.00	17.31
ATOM	2730	N	PHE	1056	71.701	17.136	70.031	1.00	18.01
ATOM	2731	CA	PHE	1056	72.248	17.896	68.913	1.00	18.44
ATOM	2732	CB	PHE	1056	72.153	19.399	69.191	1.00	18.33
ATOM	2733	CG	PHE	1056	70.745	19.903	69.366	1.00	16.87
ATOM	2734	CD1	PHE	1056	70.185	20.003	70.631	1.00	15.87

Table_1

ATOM	2735	CD2	PHE	1056	69.994	20.312	68.266	1.00	17.23
ATOM	2736	CE1	PHE	1056	68.900	20.507	70.806	1.00	16.60
ATOM	2737	CE2	PHE	1056	68.699	20.820	68.429	1.00	16.58
ATOM	2738	CZ	PHE	1056	68.155	20.918	69.703	1.00	15.30
ATOM	2739	C	PHE	1056	73.707	17.507	68.701	1.00	18.46
ATOM	2740	O	PHE	1056	74.573	17.850	69.499	1.00	19.10
ATOM	2741	N	GLU	1057	73.975	16.783	67.625	1.00	18.78
ATOM	2742	CA	GLU	1057	75.330	16.344	67.334	1.00	20.02
ATOM	2743	CB	GLU	1057	75.307	15.341	66.184	1.00	19.72
ATOM	2744	CG	GLU	1057	74.540	14.077	66.521	1.00	22.01
ATOM	2745	CD	GLU	1057	74.917	12.905	65.640	1.00	23.09
ATOM	2746	OE1	GLU	1057	75.938	12.989	64.927	1.00	25.47
ATOM	2747	OE2	GLU	1057	74.187	11.894	65.661	1.00	24.22
ATOM	2748	C	GLU	1057	76.229	17.525	67.004	1.00	21.44
ATOM	2749	O	GLU	1057	77.444	17.475	67.201	1.00	23.27
ATOM	2750	N	MET	1058	75.620	18.588	66.494	1.00	21.50
ATOM	2751	CA	MET	1058	76.332	19.810	66.153	1.00	21.03
ATOM	2752	CB	MET	1058	77.238	19.624	64.933	1.00	21.82
ATOM	2753	CG	MET	1058	78.254	20.764	64.741	1.00	23.33
ATOM	2754	SD	MET	1058	77.595	22.235	63.890	1.00	25.38
ATOM	2755	CE	MET	1058	77.740	23.456	65.128	1.00	24.05
ATOM	2756	C	MET	1058	75.299	20.863	65.842	1.00	20.56
ATOM	2757	O	MET	1058	74.446	20.670	64.983	1.00	21.00
ATOM	2758	N	ILE	1059	75.375	21.974	66.556	1.00	20.67

Table_1

ATOM	2759	CA	ILE	1059	74.456	23.075	66.347	1.00	21.27
ATOM	2760	CB	ILE	1059	73.183	22.891	67.194	1.00	21.55
ATOM	2761	CG2	ILE	1059	73.556	22.642	68.632	1.00	20.48
ATOM	2762	CG1	ILE	1059	72.283	24.119	67.070	1.00	22.27
ATOM	2763	CD1	ILE	1059	70.815	23.803	67.222	1.00	22.23
ATOM	2764	C	ILE	1059	75.191	24.332	66.774	1.00	21.43
ATOM	2765	O	ILE	1059	75.883	24.331	67.789	1.00	22.14
ATOM	2766	N	THR	1060	75.065	25.397	65.988	1.00	22.09
ATOM	2767	CA	THR	1060	75.730	26.653	66.311	1.00	21.57
ATOM	2768	CB	THR	1060	75.590	27.682	65.192	1.00	19.11
ATOM	2769	OG1	THR	1060	74.211	28.035	65.050	1.00	20.69
ATOM	2770	CG2	THR	1060	76.096	27.121	63.887	1.00	19.84
ATOM	2771	C	THR	1060	75.102	27.263	67.546	1.00	22.61
ATOM	2772	O	THR	1060	73.887	27.169	67.741	1.00	22.35
ATOM	2773	N	GLY	1061	75.927	27.899	68.372	1.00	22.78
ATOM	2774	CA	GLY	1061	75.407	28.531	69.565	1.00	22.52
ATOM	2775	C	GLY	1061	74.176	29.338	69.208	1.00	22.30
ATOM	2776	O	GLY	1061	73.118	29.149	69.808	1.00	23.19
ATOM	2777	N	PRO	1062	74.282	30.248	68.232	1.00	22.49
ATOM	2778	CD	PRO	1062	75.526	30.554	67.498	1.00	23.07
ATOM	2779	CA	PRO	1062	73.174	31.097	67.782	1.00	23.11
ATOM	2780	CB	PRO	1062	73.770	31.884	66.616	1.00	23.12
ATOM	2781	CG	PRO	1062	75.232	31.893	66.886	1.00	23.25
ATOM	2782	C	PRO	1062	71.919	30.333	67.366	1.00	24.53

Table_1

ATOM	2783	O	PRO	1062	70.798	30.792	67.597	1.00	24.19
ATOM	2784	N	ASP	1063	72.110	29.171	66.747	1.00	25.09
ATOM	2785	CA	ASP	1063	70.983	28.369	66.297	1.00	24.25
ATOM	2786	CB	ASP	1063	71.455	27.295	65.320	1.00	24.33
ATOM	2787	CG	ASP	1063	71.506	27.800	63.898	1.00	25.65
ATOM	2788	OD1	ASP	1063	70.926	28.871	63.635	1.00	26.76
ATOM	2789	OD2	ASP	1063	72.122	27.135	63.044	1.00	28.41
ATOM	2790	C	ASP	1063	70.247	27.731	67.462	1.00	24.20
ATOM	2791	O	ASP	1063	69.018	27.677	67.467	1.00	24.55
ATOM	2792	N	LEU	1064	70.999	27.254	68.450	1.00	23.06
ATOM	2793	CA	LEU	1064	70.398	26.630	69.621	1.00	21.53
ATOM	2794	CB	LEU	1064	71.476	25.980	70.492	1.00	20.97
ATOM	2795	CG	LEU	1064	71.001	25.179	71.710	1.00	22.05
ATOM	2796	CD1	LEU	1064	69.923	24.185	71.306	1.00	21.58
ATOM	2797	CD2	LEU	1064	72.183	24.460	72.328	1.00	18.59
ATOM	2798	C	LEU	1064	69.661	27.700	70.408	1.00	20.42
ATOM	2799	O	LEU	1064	68.586	27.460	70.952	1.00	20.57
ATOM	2800	N	SER	1065	70.243	28.890	70.455	1.00	20.35
ATOM	2801	CA	SER	1065	69.632	30.005	71.166	1.00	19.88
ATOM	2802	CB	SER	1065	70.513	31.249	71.041	1.00	19.48
ATOM	2803	OG	SER	1065	71.821	31.001	71.534	1.00	18.28
ATOM	2804	C	SER	1065	68.260	30.281	70.567	1.00	19.61
ATOM	2805	O	SER	1065	67.263	30.385	71.276	1.00	19.34
ATOM	2806	N	THR	1066	68.221	30.392	69.246	1.00	20.35

Table_1

ATOM	2807	CA	THR	1066	66.980	30.656	68.541	1.00	21.25
ATOM	2808	CB	THR	1066	67.219	30.702	67.025	1.00	21.92
ATOM	2809	OG1	THR	1066	68.043	31.829	66.706	1.00	23.42
ATOM	2810	CG2	THR	1066	65.907	30.814	66.281	1.00	20.87
ATOM	2811	C	THR	1066	65.948	29.578	68.844	1.00	21.95
ATOM	2812	O	THR	1066	64.785	29.872	69.119	1.00	23.33
ATOM	2813	N	LYS	1067	66.382	28.326	68.796	1.00	21.47
ATOM	2814	CA	LYS	1067	65.494	27.201	69.053	1.00	21.08
ATOM	2815	CB	LYS	1067	66.256	25.886	68.881	1.00	22.65
ATOM	2816	CG	LYS	1067	66.175	25.307	67.481	1.00	23.31
ATOM	2817	CD	LYS	1067	66.721	23.890	67.429	1.00	27.20
ATOM	2818	CE	LYS	1067	66.939	23.447	65.994	1.00	28.77
ATOM	2819	NZ	LYS	1067	65.689	22.903	65.404	1.00	30.96
ATOM	2820	C	LYS	1067	64.895	27.262	70.447	1.00	20.47
ATOM	2821	O	LYS	1067	63.695	27.061	70.627	1.00	21.36
ATOM	2822	N	MET	1068	65.738	27.541	71.433	1.00	19.74
ATOM	2823	CA	MET	1068	65.295	27.618	72.817	1.00	16.76
ATOM	2824	CB	MET	1068	66.501	27.632	73.756	1.00	14.24
ATOM	2825	CG	MET	1068	67.076	26.259	74.037	1.00	8.91
ATOM	2826	SD	MET	1068	68.152	26.195	75.475	1.00	3.22
ATOM	2827	CE	MET	1068	69.170	24.907	74.999	1.00	8.89
ATOM	2828	C	MET	1068	64.432	28.839	73.075	1.00	17.06
ATOM	2829	O	MET	1068	63.619	28.837	74.002	1.00	17.13
ATOM	2830	N	PHE	1069	64.600	29.881	72.264	1.00	18.23

Table_1

ATOM	2831	CA	PHE	1069	63.809	31.099	72.444	1.00	19.21
ATOM	2832	CB	PHE	1069	64.413	32.283	71.693	1.00	18.74
ATOM	2833	CG	PHE	1069	63.740	33.591	72.005	1.00	18.33
ATOM	2834	CD1	PHE	1069	63.755	34.097	73.300	1.00	18.35
ATOM	2835	CD2	PHE	1069	63.078	34.310	71.014	1.00	17.33
ATOM	2836	CE1	PHE	1069	63.120	35.296	73.608	1.00	18.35
ATOM	2837	CE2	PHE	1069	62.437	35.514	71.313	1.00	17.04
ATOM	2838	CZ	PHE	1069	62.458	36.007	72.613	1.00	17.44
ATOM	2839	C	PHE	1069	62.393	30.906	71.959	1.00	19.65
ATOM	2840	O	PHE	1069	61.437	31.219	72.662	1.00	19.97
ATOM	2841	N	GLU	1070	62.256	30.400	70.744	1.00	21.72
ATOM	2842	CA	GLU	1070	60.934	30.173	70.193	1.00	23.54
ATOM	2843	CB	GLU	1070	61.051	29.609	68.784	1.00	24.05
ATOM	2844	CG	GLU	1070	61.498	30.637	67.768	1.00	26.84
ATOM	2845	CD	GLU	1070	61.720	30.027	66.409	1.00	29.71
ATOM	2846	OE1	GLU	1070	61.579	28.792	66.286	1.00	32.61
ATOM	2847	OE2	GLU	1070	62.036	30.780	65.468	1.00	29.31
ATOM	2848	C	GLU	1070	60.158	29.217	71.092	1.00	24.06
ATOM	2849	O	GLU	1070	58.937	29.315	71.210	1.00	25.53
ATOM	2850	N	HIS	1071	60.877	28.299	71.730	1.00	24.57
ATOM	2851	CA	HIS	1071	60.269	27.328	72.635	1.00	25.12
ATOM	2852	CB	HIS	1071	61.291	26.252	73.020	1.00	24.71
ATOM	2853	CG	HIS	1071	60.681	25.015	73.604	1.00	26.44
ATOM	2854	CD2	HIS	1071	59.407	24.740	73.984	1.00	26.62

Table_1

ATOM	2855	ND1	HIS	1071	61.410	23.878	73.866	1.00	25.56
ATOM	2856	CE1	HIS	1071	60.615	22.953	74.382	1.00	24.30
ATOM	2857	NE2	HIS	1071	59.400	23.452	74.463	1.00	25.03
ATOM	2858	C	HIS	1071	59.779	28.044	73.887	1.00	24.58
ATOM	2859	O	HIS	1071	58.651	27.838	74.330	1.00	24.58
ATOM	2860	N	ALA	1072	60.635	28.888	74.452	1.00	25.05
ATOM	2861	CA	ALA	1072	60.290	29.647	75.651	1.00	25.47
ATOM	2862	CB	ALA	1072	61.467	30.519	76.065	1.00	23.80
ATOM	2863	C	ALA	1072	59.057	30.512	75.406	1.00	25.77
ATOM	2864	O	ALA	1072	58.263	30.760	76.314	1.00	25.13
ATOM	2865	N	LYS	1073	58.899	30.959	74.165	1.00	26.99
ATOM	2866	CA	LYS	1073	57.776	31.806	73.777	1.00	27.68
ATOM	2867	CB	LYS	1073	58.204	32.730	72.636	1.00	29.31
ATOM	2868	CG	LYS	1073	59.142	33.841	73.059	1.00	30.61
ATOM	2869	CD	LYS	1073	58.410	34.868	73.905	1.00	34.71
ATOM	2870	CE	LYS	1073	58.636	36.280	73.387	1.00	37.81
ATOM	2871	NZ	LYS	1073	58.238	36.428	71.958	1.00	39.55
ATOM	2872	C	LYS	1073	56.548	31.006	73.344	1.00	27.50
ATOM	2873	O	LYS	1073	55.451	31.552	73.232	1.00	27.75
ATOM	2874	N	LYS	1074	56.735	29.713	73.102	1.00	26.95
ATOM	2875	CA	LYS	1074	55.647	28.845	72.664	1.00	25.53
ATOM	2876	CB	LYS	1074	56.167	27.426	72.421	1.00	25.61
ATOM	2877	CG	LYS	1074	55.105	26.466	71.903	1.00	23.84
ATOM	2878	CD	LYS	1074	55.226	25.108	72.558	1.00	24.82

Table_1

ATOM	2879	CE	LYS	1074	55.163	23.978	71.540	1.00	25.56
ATOM	2880	NZ	LYS	1074	53.968	24.074	70.670	1.00	27.25
ATOM	2881	C	LYS	1074	54.469	28.776	73.627	1.00	25.74
ATOM	2882	O	LYS	1074	53.315	28.858	73.211	1.00	25.72
ATOM	2883	N	PHE	1075	54.754	28.621	74.913	1.00	25.67
ATOM	2884	CA	PHE	1075	53.692	28.516	75.896	1.00	24.96
ATOM	2885	CB	PHE	1075	54.113	27.548	77.003	1.00	25.84
ATOM	2886	CG	PHE	1075	54.563	26.205	76.488	1.00	26.33
ATOM	2887	CD1	PHE	1075	53.644	25.299	75.962	1.00	26.59
ATOM	2888	CD2	PHE	1075	55.905	25.848	76.523	1.00	26.59
ATOM	2889	CE1	PHE	1075	54.057	24.056	75.475	1.00	26.64
ATOM	2890	CE2	PHE	1075	56.329	24.610	76.039	1.00	26.57
ATOM	2891	CZ	PHE	1075	55.404	23.712	75.516	1.00	25.90
ATOM	2892	C	PHE	1075	53.237	29.846	76.484	1.00	25.71
ATOM	2893	O	PHE	1075	52.570	29.876	77.518	1.00	26.48
ATOM	2894	N	GLY	1076	53.605	30.948	75.834	1.00	26.27
ATOM	2895	CA	GLY	1076	53.163	32.255	76.294	1.00	25.51
ATOM	2896	C	GLY	1076	54.009	33.111	77.219	1.00	25.64
ATOM	2897	O	GLY	1076	53.503	34.092	77.757	1.00	24.84
ATOM	2898	N	ALA	1077	55.279	32.771	77.412	1.00	26.21
ATOM	2899	CA	ALA	1077	56.143	33.564	78.287	1.00	25.58
ATOM	2900	CB	ALA	1077	57.457	32.821	78.540	1.00	26.24
ATOM	2901	C	ALA	1077	56.428	34.930	77.661	1.00	25.52
ATOM	2902	O	ALA	1077	56.545	35.044	76.445	1.00	24.73

Table_1

ATOM	2903	N	VAL	1078	56.547	35.959	78.496	1.00	25.53
ATOM	2904	CA	VAL	1078	56.815	37.314	78.020	1.00	26.44
ATOM	2905	CB	VAL	1078	56.091	38.351	78.888	1.00	27.25
ATOM	2906	CG1	VAL	1078	56.368	39.747	78.367	1.00	26.54
ATOM	2907	CG2	VAL	1078	54.598	38.063	78.908	1.00	27.25
ATOM	2908	C	VAL	1078	58.306	37.658	78.032	1.00	26.87
ATOM	2909	O	VAL	1078	59.032	37.274	78.949	1.00	26.83
ATOM	2910	N	TYR	1079	58.738	38.394	77.007	1.00	27.05
ATOM	2911	CA	TYR	1079	60.128	38.823	76.858	1.00	27.08
ATOM	2912	CB	TYR	1079	60.702	38.360	75.534	1.00	26.69
ATOM	2913	CG	TYR	1079	62.169	38.674	75.378	1.00	28.65
ATOM	2914	CD1	TYR	1079	63.124	37.994	76.130	1.00	29.12
ATOM	2915	CE1	TYR	1079	64.472	38.253	75.984	1.00	29.74
ATOM	2916	CD2	TYR	1079	62.607	39.643	74.470	1.00	28.36
ATOM	2917	CE2	TYR	1079	63.960	39.912	74.315	1.00	29.37
ATOM	2918	CZ	TYR	1079	64.887	39.212	75.074	1.00	30.33
ATOM	2919	OH	TYR	1079	66.238	39.433	74.906	1.00	33.32
ATOM	2920	C	TYR	1079	60.190	40.328	76.913	1.00	27.31
ATOM	2921	O	TYR	1079	59.521	41.032	76.149	1.00	27.31
ATOM	2922	N	GLN	1080	61.029	40.819	77.807	1.00	27.99
ATOM	2923	CA	GLN	1080	61.162	42.239	78.005	1.00	28.22
ATOM	2924	CB	GLN	1080	60.470	42.628	79.320	1.00	28.88
ATOM	2925	CG	GLN	1080	59.006	43.012	79.144	1.00	30.78
ATOM	2926	CD	GLN	1080	58.481	43.877	80.283	1.00	31.74

Table_1

ATOM	2927	OE1	GLN	1080	59.261	44.486	81.017	1.00	30.63
ATOM	2928	NE2	GLN	1080	57.153	43.936	80.434	1.00	32.51
ATOM	2929	C	GLN	1080	62.637	42.582	78.010	1.00	27.94
ATOM	2930	O	GLN	1080	63.431	41.923	78.678	1.00	28.06
ATOM	2931	N	TYR	1081	63.017	43.581	77.226	1.00	26.97
ATOM	2932	CA	TYR	1081	64.407	43.981	77.174	1.00	26.15
ATOM	2933	CB	TYR	1081	64.705	44.636	75.840	1.00	25.31
ATOM	2934	CG	TYR	1081	66.074	45.239	75.783	1.00	27.16
ATOM	2935	CD1	TYR	1081	67.179	44.468	75.443	1.00	26.89
ATOM	2936	CE1	TYR	1081	68.443	45.018	75.403	1.00	29.13
ATOM	2937	CD2	TYR	1081	66.270	46.586	76.084	1.00	28.38
ATOM	2938	CE2	TYR	1081	67.531	47.147	76.048	1.00	28.87
ATOM	2939	CZ	TYR	1081	68.612	46.357	75.707	1.00	30.32
ATOM	2940	OH	TYR	1081	69.872	46.897	75.669	1.00	33.60
ATOM	2941	C	TYR	1081	64.660	44.951	78.316	1.00	24.76
ATOM	2942	O	TYR	1081	63.837	45.823	78.579	1.00	24.47
ATOM	2943	N	GLY	1082	65.791	44.793	78.994	1.00	24.71
ATOM	2944	CA	GLY	1082	66.107	45.674	80.099	1.00	24.53
ATOM	2945	C	GLY	1082	67.235	45.128	80.945	1.00	24.19
ATOM	2946	O	GLY	1082	67.502	43.928	80.932	1.00	23.97
ATOM	2947	N	ASP	1083	67.902	46.019	81.673	1.00	23.13
ATOM	2948	CA	ASP	1083	69.013	45.646	82.537	1.00	22.89
ATOM	2949	CB	ASP	1083	70.224	46.530	82.260	1.00	24.06
ATOM	2950	CG	ASP	1083	71.469	46.054	82.981	1.00	25.73

Table_1

ATOM	2951	OD1	ASP	1083	71.429	44.963	83.579	1.00	26.87
ATOM	2952	OD2	ASP	1083	72.491	46.769	82.946	1.00	27.07
ATOM	2953	C	ASP	1083	68.602	45.797	83.983	1.00	23.14
ATOM	2954	O	ASP	1083	68.554	46.910	84.509	1.00	24.22
ATOM	2955	N	ILE	1084	68.304	44.674	84.634	1.00	23.49
ATOM	2956	CA	ILE	1084	67.900	44.714	86.046	1.00	23.48
ATOM	2957	CB	ILE	1084	67.530	43.332	86.565	1.00	22.55
ATOM	2958	CG2	ILE	1084	67.017	43.444	87.991	1.00	20.54
ATOM	2959	CG1	ILE	1084	66.457	42.714	85.676	1.00	22.34
ATOM	2960	CD1	ILE	1084	65.395	43.672	85.235	1.00	22.77
ATOM	2961	C	ILE	1084	69.026	45.270	86.901	1.00	23.15
ATOM	2962	O	ILE	1084	70.133	44.743	86.891	1.00	23.11
ATOM	2963	N	LYS	1085	68.710	46.322	87.655	1.00	24.46
ATOM	2964	CA	LYS	1085	69.654	46.987	88.545	1.00	24.37
ATOM	2965	CB	LYS	1085	69.418	48.494	88.566	1.00	23.99
ATOM	2966	CG	LYS	1085	70.266	49.258	87.595	1.00	23.29
ATOM	2967	CD	LYS	1085	69.655	49.195	86.220	1.00	22.40
ATOM	2968	CE	LYS	1085	70.459	49.992	85.240	1.00	22.83
ATOM	2969	NZ	LYS	1085	69.819	49.903	83.917	1.00	24.41
ATOM	2970	C	LYS	1085	69.577	46.462	89.946	1.00	24.06
ATOM	2971	O	LYS	1085	70.577	46.407	90.652	1.00	24.71
ATOM	2972	N	SER	1086	68.402	46.070	90.398	1.00	23.88
ATOM	2973	CA	SER	1086	68.299	45.556	91.740	1.00	24.75
ATOM	2974	CB	SER	1086	68.185	46.702	92.740	1.00	26.02

Table_1

ATOM	2975	OG	SER	1086	66.958	47.393	92.506	1.00	27.89
ATOM	2976	C	SER	1086	67.029	44.785	91.806	1.00	24.88
ATOM	2977	O	SER	1086	66.164	44.881	90.942	1.00	24.66
ATOM	2978	N	VAL	1087	66.922	44.048	92.904	1.00	24.90
ATOM	2979	CA	VAL	1087	65.739	43.251	93.184	1.00	26.50
ATOM	2980	CB	VAL	1087	65.960	41.708	93.030	1.00	25.84
ATOM	2981	CG1	VAL	1087	64.728	40.975	93.533	1.00	24.56
ATOM	2982	CG2	VAL	1087	66.210	41.363	91.577	1.00	25.18
ATOM	2983	C	VAL	1087	65.300	43.514	94.607	1.00	28.67
ATOM	2984	O	VAL	1087	66.121	43.586	95.534	1.00	27.92
ATOM	2985	N	GLU	1088	64.000	43.716	94.781	1.00	31.71
ATOM	2986	CA	GLU	1088	63.462	43.991	96.100	1.00	35.18
ATOM	2987	CB	GLU	1088	62.763	45.336	96.127	1.00	39.01
ATOM	2988	CG	GLU	1088	62.631	45.840	97.543	1.00	43.47
ATOM	2989	CD	GLU	1088	62.713	47.364	97.640	1.00	47.88
ATOM	2990	OE1	GLU	1088	62.567	47.907	98.762	1.00	48.71
ATOM	2991	OE2	GLU	1088	62.922	48.030	96.594	1.00	50.56
ATOM	2992	C	GLU	1088	62.501	42.972	96.630	1.00	35.68
ATOM	2993	O	GLU	1088	61.746	42.370	95.896	1.00	35.89
ATOM	2994	N	ASP	1089	62.514	42.833	97.939	1.00	37.25
ATOM	2995	CA	ASP	1089	61.650	41.895	98.589	1.00	38.91
ATOM	2996	CB	ASP	1089	62.494	41.029	99.528	1.00	39.92
ATOM	2997	CG	ASP	1089	61.743	39.861	100.062	1.00	39.86
ATOM	2998	OD1	ASP	1089	60.563	39.757	99.715	1.00	40.74

Table_1

ATOM	2999	OD2	ASP	1089	62.333	39.060	100.820	1.00	41.64
ATOM	3000	C	ASP	1089	60.627	42.689	99.393	1.00	39.49
ATOM	3001	O	ASP	1089	61.014	43.412	100.321	1.00	38.66
ATOM	3002	N	LYS	1090	59.347	42.546	99.071	1.00	40.58
ATOM	3003	CA	LYS	1090	58.284	43.254	99.801	1.00	41.85
ATOM	3004	CB	LYS	1090	57.530	44.223	98.883	1.00	41.93
ATOM	3005	CG	LYS	1090	58.376	45.416	98.432	1.00	43.00
ATOM	3006	CD	LYS	1090	57.803	46.746	98.923	1.00	44.54
ATOM	3007	CE	LYS	1090	58.271	47.063	100.335	1.00	45.84
ATOM	3008	NZ	LYS	1090	57.131	47.471	101.204	1.00	48.25
ATOM	3009	C	LYS	1090	57.312	42.283	100.444	1.00	42.22
ATOM	3010	O	LYS	1090	56.151	42.623	100.685	1.00	42.88
ATOM	3011	N	GLY	1091	57.800	41.081	100.731	1.00	42.35
ATOM	3012	CA	GLY	1091	56.986	40.077	101.389	1.00	42.30
ATOM	3013	C	GLY	1091	56.300	39.070	100.495	1.00	42.13
ATOM	3014	O	GLY	1091	56.841	38.003	100.214	1.00	42.32
ATOM	3015	N	GLU	1092	55.094	39.402	100.054	1.00	42.05
ATOM	3016	CA	GLU	1092	54.332	38.507	99.200	1.00	41.85
ATOM	3017	CB	GLU	1092	52.830	38.734	99.407	1.00	44.04
ATOM	3018	CG	GLU	1092	52.350	38.470	100.831	1.00	47.54
ATOM	3019	CD	GLU	1092	52.326	36.993	101.179	1.00	49.18
ATOM	3020	OE1	GLU	1092	52.058	36.177	100.275	1.00	51.68
ATOM	3021	OE2	GLU	1092	52.572	36.647	102.355	1.00	48.59
ATOM	3022	C	GLU	1092	54.686	38.693	97.734	1.00	40.51

Table_1

ATOM	3023	O	GLU	1092	54.145	38.009	96.867	1.00	40.47
ATOM	3024	N	TYR	1093	55.585	39.631	97.459	1.00	38.90
ATOM	3025	CA	TYR	1093	56.017	39.898	96.092	1.00	37.11
ATOM	3026	CB	TYR	1093	54.954	40.698	95.332	1.00	38.32
ATOM	3027	CG	TYR	1093	54.797	42.116	95.820	1.00	39.52
ATOM	3028	CD1	TYR	1093	55.400	43.180	95.148	1.00	40.61
ATOM	3029	CE1	TYR	1093	55.275	44.491	95.617	1.00	42.10
ATOM	3030	CD2	TYR	1093	54.061	42.393	96.970	1.00	40.58
ATOM	3031	CE2	TYR	1093	53.929	43.696	97.448	1.00	42.18
ATOM	3032	CZ	TYR	1093	54.537	44.739	96.770	1.00	42.45
ATOM	3033	OH	TYR	1093	54.415	46.023	97.253	1.00	41.77
ATOM	3034	C	TYR	1093	57.337	40.655	96.089	1.00	35.35
ATOM	3035	O	TYR	1093	57.796	41.143	97.129	1.00	33.86
ATOM	3036	N	LYS	1094	57.945	40.756	94.914	1.00	32.78
ATOM	3037	CA	LYS	1094	59.225	41.430	94.795	1.00	31.48
ATOM	3038	CB	LYS	1094	60.307	40.406	94.442	1.00	32.07
ATOM	3039	CG	LYS	1094	60.915	39.719	95.662	1.00	32.66
ATOM	3040	CD	LYS	1094	60.771	38.213	95.592	1.00	32.40
ATOM	3041	CE	LYS	1094	59.870	37.691	96.701	1.00	31.17
ATOM	3042	NZ	LYS	1094	60.472	37.914	98.039	1.00	30.69
ATOM	3043	C	LYS	1094	59.194	42.537	93.760	1.00	29.98
ATOM	3044	O	LYS	1094	58.298	42.588	92.923	1.00	30.35
ATOM	3045	N	VAL	1095	60.171	43.433	93.830	1.00	28.67
ATOM	3046	CA	VAL	1095	60.260	44.534	92.884	1.00	26.68

Table_1

ATOM	3047	CB	VAL	1095	60.304	45.904	93.597	1.00	25.94
ATOM	3048	CG1	VAL	1095	60.149	47.026	92.579	1.00	23.78
ATOM	3049	CG2	VAL	1095	59.207	45.986	94.636	1.00	24.93
ATOM	3050	C	VAL	1095	61.529	44.385	92.066	1.00	26.79
ATOM	3051	O	VAL	1095	62.627	44.403	92.616	1.00	26.21
ATOM	3052	N	ILE	1096	61.366	44.220	90.756	1.00	26.85
ATOM	3053	CA	ILE	1096	62.488	44.084	89.831	1.00	26.17
ATOM	3054	CB	ILE	1096	62.146	43.124	88.675	1.00	24.54
ATOM	3055	CG2	ILE	1096	63.296	43.055	87.705	1.00	23.31
ATOM	3056	CG1	ILE	1096	61.813	41.736	89.221	1.00	24.50
ATOM	3057	CD1	ILE	1096	60.435	41.638	89.851	1.00	22.41
ATOM	3058	C	ILE	1096	62.703	45.472	89.242	1.00	26.97
ATOM	3059	O	ILE	1096	61.858	45.956	88.498	1.00	27.06
ATOM	3060	N	ASN	1097	63.827	46.107	89.566	1.00	29.00
ATOM	3061	CA	ASN	1097	64.112	47.456	89.074	1.00	30.18
ATOM	3062	CB	ASN	1097	64.837	48.265	90.153	1.00	34.05
ATOM	3063	CG	ASN	1097	63.958	48.540	91.356	1.00	39.15
ATOM	3064	OD1	ASN	1097	62.767	48.834	91.215	1.00	44.89
ATOM	3065	ND2	ASN	1097	64.536	48.440	92.550	1.00	40.99
ATOM	3066	C	ASN	1097	64.899	47.526	87.773	1.00	29.03
ATOM	3067	O	ASN	1097	66.052	47.096	87.693	1.00	27.68
ATOM	3068	N	PHE	1098	64.256	48.095	86.760	1.00	28.49
ATOM	3069	CA	PHE	1098	64.836	48.249	85.434	1.00	27.06
ATOM	3070	CB	PHE	1098	63.722	48.422	84.406	1.00	27.14

Table_1

ATOM	3071	CG	PHE	1098	63.049	47.143	84.008	1.00	26.16
ATOM	3072	CD1	PHE	1098	62.178	46.496	84.877	1.00	24.99
ATOM	3073	CD2	PHE	1098	63.269	46.596	82.748	1.00	26.26
ATOM	3074	CE1	PHE	1098	61.523	45.327	84.494	1.00	24.40
ATOM	3075	CE2	PHE	1098	62.621	45.429	82.354	1.00	26.17
ATOM	3076	CZ	PHE	1098	61.748	44.791	83.231	1.00	25.25
ATOM	3077	C	PHE	1098	65.742	49.467	85.382	1.00	27.26
ATOM	3078	O	PHE	1098	66.509	49.646	84.436	1.00	27.68
ATOM	3079	N	GLY	1099	65.643	50.308	86.403	1.00	29.05
ATOM	3080	CA	GLY	1099	66.443	51.518	86.456	1.00	30.39
ATOM	3081	C	GLY	1099	65.530	52.722	86.567	1.00	32.08
ATOM	3082	O	GLY	1099	65.700	53.572	87.441	1.00	33.94
ATOM	3083	N	ASN	1100	64.551	52.796	85.673	1.00	32.54
ATOM	3084	CA	ASN	1100	63.597	53.893	85.681	1.00	32.76
ATOM	3085	CB	ASN	1100	63.873	54.847	84.521	1.00	33.27
ATOM	3086	CG	ASN	1100	64.868	55.929	84.891	1.00	35.05
ATOM	3087	OD1	ASN	1100	64.802	56.505	85.980	1.00	36.74
ATOM	3088	ND2	ASN	1100	65.800	56.207	83.991	1.00	35.62
ATOM	3089	C	ASN	1100	62.195	53.329	85.581	1.00	33.03
ATOM	3090	O	ASN	1100	61.218	54.067	85.463	1.00	33.51
ATOM	3091	N	LYS	1101	62.112	52.005	85.629	1.00	33.88
ATOM	3092	CA	LYS	1101	60.844	51.302	85.566	1.00	34.71
ATOM	3093	CB	LYS	1101	60.667	50.636	84.204	1.00	34.16
ATOM	3094	CG	LYS	1101	59.438	49.754	84.106	1.00	34.64

Table_1

ATOM	3095	CD	LYS	1101	59.284	49.194	82.708	1.00	33.37
ATOM	3096	CE	LYS	1101	59.332	47.679	82.723	1.00	34.73
ATOM	3097	NZ	LYS	1101	59.121	47.111	81.363	1.00	34.56
ATOM	3098	C	LYS	1101	60.856	50.241	86.651	1.00	35.81
ATOM	3099	O	LYS	1101	61.918	49.801	87.089	1.00	35.76
ATOM	3100	N	GLU	1102	59.676	49.836	87.093	1.00	36.54
ATOM	3101	CA	GLU	1102	59.582	48.820	88.121	1.00	36.84
ATOM	3102	CB	GLU	1102	59.046	49.422	89.417	1.00	38.87
ATOM	3103	CG	GLU	1102	59.871	50.579	89.942	1.00	43.27
ATOM	3104	CD	GLU	1102	59.881	50.647	91.456	1.00	46.11
ATOM	3105	OE1	GLU	1102	58.796	50.816	92.053	1.00	48.30
ATOM	3106	OE2	GLU	1102	60.974	50.532	92.050	1.00	46.01
ATOM	3107	C	GLU	1102	58.654	47.723	87.641	1.00	36.31
ATOM	3108	O	GLU	1102	57.776	47.957	86.811	1.00	36.99
ATOM	3109	N	LEU	1103	58.859	46.523	88.164	1.00	35.77
ATOM	3110	CA	LEU	1103	58.040	45.376	87.802	1.00	34.38
ATOM	3111	CB	LEU	1103	58.757	44.538	86.740	1.00	33.54
ATOM	3112	CG	LEU	1103	57.917	43.624	85.854	1.00	32.94
ATOM	3113	CD1	LEU	1103	58.456	43.649	84.438	1.00	33.13
ATOM	3114	CD2	LEU	1103	57.958	42.212	86.402	1.00	32.92
ATOM	3115	C	LEU	1103	57.829	44.561	89.067	1.00	33.45
ATOM	3116	O	LEU	1103	58.719	44.480	89.918	1.00	32.39
ATOM	3117	N	THR	1104	56.649	43.971	89.201	1.00	32.81
ATOM	3118	CA	THR	1104	56.348	43.172	90.376	1.00	32.94

Table_1

ATOM	3119	CB	THR	1104	55.122	43.720	91.123	1.00	33.38
ATOM	3120	OG1	THR	1104	53.983	43.686	90.257	1.00	34.87
ATOM	3121	CG2	THR	1104	55.368	45.149	91.569	1.00	34.06
ATOM	3122	C	THR	1104	56.071	41.736	89.975	1.00	31.77
ATOM	3123	O	THR	1104	55.466	41.479	88.938	1.00	32.98
ATOM	3124	N	ALA	1105	56.523	40.803	90.803	1.00	31.34
ATOM	3125	CA	ALA	1105	56.324	39.383	90.552	1.00	31.71
ATOM	3126	CB	ALA	1105	57.405	38.861	89.613	1.00	32.26
ATOM	3127	C	ALA	1105	56.368	38.634	91.877	1.00	31.35
ATOM	3128	O	ALA	1105	57.161	38.967	92.759	1.00	30.65
ATOM	3129	N	LYS	1106	55.511	37.628	92.018	1.00	30.50
ATOM	3130	CA	LYS	1106	55.455	36.843	93.248	1.00	30.42
ATOM	3131	CB	LYS	1106	54.265	35.884	93.201	1.00	31.37
ATOM	3132	CG	LYS	1106	52.917	36.558	93.403	1.00	33.64
ATOM	3133	CD	LYS	1106	51.796	35.761	92.748	1.00	34.84
ATOM	3134	CE	LYS	1106	50.468	36.504	92.803	1.00	36.12
ATOM	3135	NZ	LYS	1106	49.581	36.015	93.899	1.00	35.69
ATOM	3136	C	LYS	1106	56.742	36.055	93.487	1.00	29.29
ATOM	3137	O	LYS	1106	57.078	35.730	94.627	1.00	29.33
ATOM	3138	N	ALA	1107	57.460	35.747	92.413	1.00	28.02
ATOM	3139	CA	ALA	1107	58.708	35.001	92.529	1.00	28.17
ATOM	3140	CB	ALA	1107	58.447	33.512	92.349	1.00	27.97
ATOM	3141	C	ALA	1107	59.726	35.475	91.502	1.00	27.64
ATOM	3142	O	ALA	1107	59.360	35.916	90.412	1.00	27.95

Table_1

ATOM	3143	N	VAL	1108	61.005	35.371	91.855	1.00	26.39
ATOM	3144	CA	VAL	1108	62.081	35.792	90.966	1.00	24.84
ATOM	3145	CB	VAL	1108	62.787	37.062	91.497	1.00	25.25
ATOM	3146	CG1	VAL	1108	64.075	37.317	90.714	1.00	24.17
ATOM	3147	CG2	VAL	1108	61.852	38.256	91.388	1.00	25.26
ATOM	3148	C	VAL	1108	63.141	34.716	90.779	1.00	23.41
ATOM	3149	O	VAL	1108	63.707	34.212	91.748	1.00	22.88
ATOM	3150	N	ILE	1109	63.406	34.364	89.525	1.00	21.99
ATOM	3151	CA	ILE	1109	64.428	33.377	89.229	1.00	21.09
ATOM	3152	CB	ILE	1109	63.952	32.323	88.223	1.00	21.06
ATOM	3153	CG2	ILE	1109	65.123	31.434	87.826	1.00	21.16
ATOM	3154	CG1	ILE	1109	62.850	31.464	88.841	1.00	19.78
ATOM	3155	CD1	ILE	1109	62.201	30.518	87.854	1.00	18.17
ATOM	3156	C	ILE	1109	65.611	34.104	88.618	1.00	20.01
ATOM	3157	O	ILE	1109	65.518	34.623	87.509	1.00	19.97
ATOM	3158	N	ILE	1110	66.717	34.146	89.351	1.00	19.64
ATOM	3159	CA	ILE	1110	67.923	34.813	88.883	1.00	19.58
ATOM	3160	CB	ILE	1110	68.756	35.344	90.068	1.00	18.80
ATOM	3161	CG2	ILE	1110	70.090	35.870	89.573	1.00	17.96
ATOM	3162	CG1	ILE	1110	67.993	36.460	90.784	1.00	17.66
ATOM	3163	CD1	ILE	1110	68.699	36.988	92.012	1.00	13.56
ATOM	3164	C	ILE	1110	68.784	33.859	88.061	1.00	20.21
ATOM	3165	O	ILE	1110	69.394	32.939	88.596	1.00	20.88
ATOM	3166	N	ALA	1111	68.823	34.089	86.754	1.00	20.46

Table_1

ATOM	3167	CA	ALA	1111	69.603	33.267	85.839	1.00	19.89
ATOM	3168	CB	ALA	1111	68.676	32.462	84.959	1.00	18.53
ATOM	3169	C	ALA	1111	70.458	34.194	84.990	1.00	20.62
ATOM	3170	O	ALA	1111	70.408	34.162	83.764	1.00	19.51
ATOM	3171	N	THR	1112	71.256	35.014	85.659	1.00	22.32
ATOM	3172	CA	THR	1112	72.101	35.985	84.982	1.00	23.03
ATOM	3173	CB	THR	1112	72.248	37.227	85.853	1.00	22.03
ATOM	3174	OG1	THR	1112	72.542	36.831	87.196	1.00	22.61
ATOM	3175	CG2	THR	1112	70.945	38.007	85.859	1.00	23.79
ATOM	3176	C	THR	1112	73.481	35.469	84.576	1.00	24.39
ATOM	3177	O	THR	1112	74.302	36.214	84.042	1.00	24.72
ATOM	3178	N	GLY	1113	73.735	34.192	84.831	1.00	25.11
ATOM	3179	CA	GLY	1113	75.006	33.597	84.452	1.00	23.43
ATOM	3180	C	GLY	1113	76.283	34.157	85.049	1.00	23.37
ATOM	3181	O	GLY	1113	76.276	34.829	86.083	1.00	24.16
ATOM	3182	N	ALA	1114	77.393	33.850	84.382	1.00	23.10
ATOM	3183	CA	ALA	1114	78.717	34.285	84.801	1.00	22.61
ATOM	3184	CB	ALA	1114	79.438	33.154	85.510	1.00	19.00
ATOM	3185	C	ALA	1114	79.506	34.717	83.576	1.00	23.58
ATOM	3186	O	ALA	1114	78.990	34.710	82.455	1.00	23.55
ATOM	3187	N	GLU	1115	80.765	35.080	83.780	1.00	24.77
ATOM	3188	CA	GLU	1115	81.583	35.524	82.666	1.00	26.36
ATOM	3189	CB	GLU	1115	81.474	37.036	82.544	1.00	28.81
ATOM	3190	CG	GLU	1115	81.463	37.568	81.135	1.00	33.55

Table_1

ATOM	3191	CD	GLU	1115	81.770	39.050	81.106	1.00	36.49
ATOM	3192	OE1	GLU	1115	82.370	39.544	82.082	1.00	36.02
ATOM	3193	OE2	GLU	1115	81.412	39.724	80.117	1.00	39.92
ATOM	3194	C	GLU	1115	83.036	35.134	82.842	1.00	26.29
ATOM	3195	O	GLU	1115	83.593	35.276	83.926	1.00	27.75
ATOM	3196	N	TYR	1116	83.651	34.645	81.771	1.00	26.05
ATOM	3197	CA	TYR	1116	85.050	34.255	81.837	1.00	25.71
ATOM	3198	CB	TYR	1116	85.417	33.353	80.669	1.00	25.53
ATOM	3199	CG	TYR	1116	85.238	31.896	80.991	1.00	25.61
ATOM	3200	CD1	TYR	1116	84.359	31.112	80.258	1.00	25.43
ATOM	3201	CE1	TYR	1116	84.165	29.781	80.564	1.00	27.19
ATOM	3202	CD2	TYR	1116	85.927	31.307	82.048	1.00	26.08
ATOM	3203	CE2	TYR	1116	85.741	29.968	82.365	1.00	26.55
ATOM	3204	CZ	TYR	1116	84.855	29.212	81.614	1.00	27.12
ATOM	3205	OH	TYR	1116	84.639	27.884	81.897	1.00	27.53
ATOM	3206	C	TYR	1116	85.919	35.483	81.813	1.00	26.46
ATOM	3207	O	TYR	1116	85.657	36.428	81.070	1.00	25.85
ATOM	3208	N	LYS	1117	86.959	35.468	82.634	1.00	27.14
ATOM	3209	CA	LYS	1117	87.871	36.593	82.702	1.00	27.48
ATOM	3210	CB	LYS	1117	88.637	36.558	84.022	1.00	27.60
ATOM	3211	CG	LYS	1117	87.777	36.934	85.214	1.00	26.76
ATOM	3212	CD	LYS	1117	88.607	37.056	86.478	1.00	27.76
ATOM	3213	CE	LYS	1117	87.735	37.404	87.673	1.00	28.64
ATOM	3214	NZ	LYS	1117	88.513	37.386	88.940	1.00	30.66

Table_1

ATOM	3215	C	LYS	1117	88.817	36.545	81.514	1.00	28.46
ATOM	3216	O	LYS	1117	89.314	35.480	81.143	1.00	28.98
ATOM	3217	N	LYS	1118	89.050	37.696	80.899	1.00	28.62
ATOM	3218	CA	LYS	1118	89.925	37.765	79.745	1.00	30.02
ATOM	3219	CB	LYS	1118	89.282	38.632	78.661	1.00	31.43
ATOM	3220	CG	LYS	1118	88.264	37.888	77.808	1.00	33.86
ATOM	3221	CD	LYS	1118	87.006	38.704	77.606	1.00	37.01
ATOM	3222	CE	LYS	1118	85.798	37.808	77.424	1.00	38.27
ATOM	3223	NZ	LYS	1118	85.236	37.390	78.734	1.00	40.25
ATOM	3224	C	LYS	1118	91.308	38.293	80.115	1.00	29.01
ATOM	3225	O	LYS	1118	91.452	39.142	80.995	1.00	27.65
ATOM	3226	N	ILE	1119	92.327	37.783	79.435	1.00	28.33
ATOM	3227	CA	ILE	1119	93.697	38.196	79.699	1.00	28.51
ATOM	3228	CB	ILE	1119	94.698	37.184	79.087	1.00	27.22
ATOM	3229	CG2	ILE	1119	94.982	37.538	77.637	1.00	28.09
ATOM	3230	CG1	ILE	1119	95.982	37.150	79.912	1.00	27.59
ATOM	3231	CD1	ILE	1119	96.840	35.947	79.632	1.00	28.68
ATOM	3232	C	ILE	1119	93.987	39.595	79.153	1.00	28.21
ATOM	3233	O	ILE	1119	94.969	40.227	79.538	1.00	26.83
ATOM	3234	N	GLY	1120	93.130	40.074	78.256	1.00	28.25
ATOM	3235	CA	GLY	1120	93.331	41.393	77.684	1.00	28.41
ATOM	3236	C	GLY	1120	94.610	41.460	76.874	1.00	29.30
ATOM	3237	O	GLY	1120	95.601	42.052	77.306	1.00	30.06
ATOM	3238	N	VAL	1121	94.583	40.856	75.690	1.00	29.11

Table_1

ATOM	3239	CA	VAL	1121	95.741	40.824	74.799	1.00	28.48
ATOM	3240	CB	VAL	1121	96.547	39.512	75.004	1.00	27.95
ATOM	3241	CG1	VAL	1121	97.117	39.016	73.682	1.00	27.56
ATOM	3242	CG2	VAL	1121	97.654	39.739	76.016	1.00	25.62
ATOM	3243	C	VAL	1121	95.270	40.907	73.346	1.00	29.16
ATOM	3244	O	VAL	1121	94.200	40.410	72.999	1.00	30.37
ATOM	3245	N	PRO	1122	96.075	41.550	72.474	1.00	28.58
ATOM	3246	CD	PRO	1122	97.355	42.221	72.686	1.00	27.42
ATOM	3247	CA	PRO	1122	95.629	41.632	71.077	1.00	27.84
ATOM	3248	CB	PRO	1122	96.769	42.396	70.396	1.00	26.72
ATOM	3249	CG	PRO	1122	97.446	43.131	71.499	1.00	25.71
ATOM	3250	C	PRO	1122	95.421	40.251	70.473	1.00	27.32
ATOM	3251	O	PRO	1122	96.263	39.368	70.610	1.00	27.42
ATOM	3252	N	GLY	1123	94.280	40.066	69.812	1.00	27.17
ATOM	3253	CA	GLY	1123	93.980	38.792	69.191	1.00	27.20
ATOM	3254	C	GLY	1123	93.023	37.928	69.992	1.00	27.51
ATOM	3255	O	GLY	1123	92.305	37.107	69.425	1.00	26.53
ATOM	3256	N	GLU	1124	93.005	38.117	71.309	1.00	27.91
ATOM	3257	CA	GLU	1124	92.139	37.338	72.191	1.00	29.21
ATOM	3258	CB	GLU	1124	92.389	37.725	73.649	1.00	27.35
ATOM	3259	CG	GLU	1124	91.530	36.960	74.645	1.00	27.81
ATOM	3260	CD	GLU	1124	91.704	37.453	76.061	1.00	28.50
ATOM	3261	OE1	GLU	1124	92.067	38.634	76.232	1.00	28.90
ATOM	3262	OE2	GLU	1124	91.479	36.662	77.003	1.00	28.00

Table_1

ATOM	3263	C	GLU	1124	90.654	37.499	71.876	1.00	31.22
ATOM	3264	O	GLU	1124	89.880	36.546	71.977	1.00	32.35
ATOM	3265	N	GLN	1125	90.256	38.709	71.507	1.00	32.46
ATOM	3266	CA	GLN	1125	88.863	38.981	71.183	1.00	32.77
ATOM	3267	CB	GLN	1125	88.612	40.483	71.160	1.00	35.24
ATOM	3268	CG	GLN	1125	88.234	41.094	72.486	1.00	38.52
ATOM	3269	CD	GLN	1125	88.084	42.597	72.382	1.00	41.03
ATOM	3270	OE1	GLN	1125	88.683	43.347	73.151	1.00	42.49
ATOM	3271	NE2	GLN	1125	87.285	43.047	71.418	1.00	40.12
ATOM	3272	C	GLN	1125	88.521	38.423	69.816	1.00	32.14
ATOM	3273	O	GLN	1125	87.702	37.520	69.679	1.00	32.15
ATOM	3274	N	GLU	1126	89.159	38.993	68.803	1.00	31.45
ATOM	3275	CA	GLU	1126	88.943	38.599	67.424	1.00	30.00
ATOM	3276	CB	GLU	1126	89.879	39.408	66.520	1.00	29.65
ATOM	3277	CG	GLU	1126	89.579	40.904	66.532	1.00	30.91
ATOM	3278	CD	GLU	1126	90.620	41.736	65.802	1.00	32.19
ATOM	3279	OE1	GLU	1126	91.646	41.171	65.369	1.00	32.94
ATOM	3280	OE2	GLU	1126	90.413	42.960	65.661	1.00	31.57
ATOM	3281	C	GLU	1126	89.131	37.104	67.178	1.00	28.99
ATOM	3282	O	GLU	1126	88.487	36.531	66.301	1.00	29.58
ATOM	3283	N	LEU	1127	90.000	36.464	67.953	1.00	27.01
ATOM	3284	CA	LEU	1127	90.249	35.042	67.756	1.00	26.00
ATOM	3285	CB	LEU	1127	91.748	34.752	67.847	1.00	25.18
ATOM	3286	CG	LEU	1127	92.587	35.303	66.687	1.00	22.54

Table_1

ATOM	3287	CD1	LEU	1127	93.981	34.711	66.741	1.00	21.99
ATOM	3288	CD2	LEU	1127	91.918	34.978	65.359	1.00	20.22
ATOM	3289	C	LEU	1127	89.487	34.147	68.717	1.00	26.29
ATOM	3290	O	LEU	1127	89.813	32.973	68.871	1.00	25.10
ATOM	3291	N	GLY	1128	88.470	34.705	69.363	1.00	27.11
ATOM	3292	CA	GLY	1128	87.668	33.920	70.277	1.00	26.95
ATOM	3293	C	GLY	1128	86.767	33.037	69.442	1.00	27.68
ATOM	3294	O	GLY	1128	86.000	33.531	68.615	1.00	27.89
ATOM	3295	N	GLY	1129	86.861	31.729	69.641	1.00	28.34
ATOM	3296	CA	GLY	1129	86.041	30.819	68.865	1.00	29.25
ATOM	3297	C	GLY	1129	86.800	30.315	67.655	1.00	29.93
ATOM	3298	O	GLY	1129	86.337	29.421	66.948	1.00	30.91
ATOM	3299	N	ARG	1130	87.975	30.889	67.422	1.00	29.72
ATOM	3300	CA	ARG	1130	88.805	30.495	66.292	1.00	29.22
ATOM	3301	CB	ARG	1130	88.894	31.632	65.275	1.00	31.83
ATOM	3302	CG	ARG	1130	87.630	31.858	64.481	1.00	35.64
ATOM	3303	CD	ARG	1130	87.296	33.333	64.434	1.00	39.35
ATOM	3304	NE	ARG	1130	88.352	34.101	63.782	1.00	43.24
ATOM	3305	CZ	ARG	1130	88.131	35.085	62.915	1.00	44.24
ATOM	3306	NH1	ARG	1130	86.889	35.423	62.595	1.00	44.91
ATOM	3307	NH2	ARG	1130	89.150	35.735	62.370	1.00	42.82
ATOM	3308	C	ARG	1130	90.205	30.128	66.748	1.00	27.56
ATOM	3309	O	ARG	1130	91.178	30.398	66.050	1.00	27.08
ATOM	3310	N	GLY	1131	90.309	29.516	67.921	1.00	26.35

Table_1

ATOM	3311	CA	GLY	1131	91.612	29.126	68.422	1.00	25.23
ATOM	3312	C	GLY	1131	91.818	29.524	69.866	1.00	24.95
ATOM	3313	O	GLY	1131	92.630	28.935	70.572	1.00	24.69
ATOM	3314	N	VAL	1132	91.079	30.533	70.306	1.00	25.23
ATOM	3315	CA	VAL	1132	91.175	31.018	71.674	1.00	24.65
ATOM	3316	CB	VAL	1132	91.070	32.554	71.712	1.00	23.49
ATOM	3317	CG1	VAL	1132	91.053	33.039	73.145	1.00	22.98
ATOM	3318	CG2	VAL	1132	92.242	33.168	70.965	1.00	22.50
ATOM	3319	C	VAL	1132	90.029	30.412	72.472	1.00	25.23
ATOM	3320	O	VAL	1132	88.903	30.351	71.985	1.00	26.30
ATOM	3321	N	SER	1133	90.307	29.967	73.693	1.00	25.08
ATOM	3322	CA	SER	1133	89.272	29.354	74.514	1.00	25.38
ATOM	3323	CB	SER	1133	89.134	27.877	74.135	1.00	26.76
ATOM	3324	OG	SER	1133	88.053	27.269	74.821	1.00	30.47
ATOM	3325	C	SER	1133	89.521	29.483	76.015	1.00	24.76
ATOM	3326	O	SER	1133	90.629	29.809	76.447	1.00	24.25
ATOM	3327	N	TYR	1134	88.483	29.209	76.803	1.00	24.45
ATOM	3328	CA	TYR	1134	88.558	29.308	78.260	1.00	24.17
ATOM	3329	CB	TYR	1134	87.749	30.515	78.735	1.00	24.12
ATOM	3330	CG	TYR	1134	88.150	31.800	78.063	1.00	24.56
ATOM	3331	CD1	TYR	1134	87.649	32.141	76.813	1.00	23.77
ATOM	3332	CE1	TYR	1134	88.059	33.299	76.171	1.00	25.08
ATOM	3333	CD2	TYR	1134	89.067	32.658	78.660	1.00	24.40
ATOM	3334	CE2	TYR	1134	89.483	33.816	78.027	1.00	24.12

Table_1

ATOM	3335	CZ	TYR	1134	88.978	34.131	76.787	1.00	24.69
ATOM	3336	OH	TYR	1134	89.412	35.269	76.155	1.00	26.32
ATOM	3337	C	TYR	1134	88.044	28.062	78.969	1.00	24.58
ATOM	3338	O	TYR	1134	88.171	27.937	80.185	1.00	24.62
ATOM	3339	N	CYS	1135	87.467	27.139	78.211	1.00	25.88
ATOM	3340	CA	CYS	1135	86.920	25.923	78.796	1.00	27.63
ATOM	3341	CB	CYS	1135	85.402	26.042	78.864	1.00	29.96
ATOM	3342	SG	CYS	1135	84.596	24.730	79.789	1.00	36.39
ATOM	3343	C	CYS	1135	87.299	24.675	78.008	1.00	26.64
ATOM	3344	O	CYS	1135	86.854	24.490	76.878	1.00	27.02
ATOM	3345	N	ALA	1136	88.112	23.816	78.611	1.00	25.64
ATOM	3346	CA	ALA	1136	88.549	22.590	77.950	1.00	24.23
ATOM	3347	CB	ALA	1136	89.587	21.886	78.800	1.00	24.23
ATOM	3348	C	ALA	1136	87.380	21.652	77.691	1.00	24.49
ATOM	3349	O	ALA	1136	87.314	20.993	76.653	1.00	24.63
ATOM	3350	N	VAL	1137	86.463	21.594	78.650	1.00	23.84
ATOM	3351	CA	VAL	1137	85.290	20.737	78.554	1.00	24.06
ATOM	3352	CB	VAL	1137	84.431	20.831	79.832	1.00	23.32
ATOM	3353	CG1	VAL	1137	83.226	19.914	79.719	1.00	20.34
ATOM	3354	CG2	VAL	1137	85.269	20.466	81.041	1.00	24.21
ATOM	3355	C	VAL	1137	84.409	21.084	77.362	1.00	24.81
ATOM	3356	O	VAL	1137	83.812	20.200	76.743	1.00	25.03
ATOM	3357	N	CYS	1138	84.331	22.373	77.044	1.00	24.87
ATOM	3358	CA	CYS	1138	83.508	22.843	75.939	1.00	24.17

Table_1

ATOM	3359	CB	CYS	1138	83.271	24.347	76.068	1.00	23.73
ATOM	3360	SG	CYS	1138	82.751	24.892	77.696	1.00	24.17
ATOM	3361	C	CYS	1138	84.076	22.561	74.553	1.00	25.13
ATOM	3362	O	CYS	1138	83.400	21.975	73.707	1.00	27.01
ATOM	3363	N	ASP	1139	85.316	22.976	74.313	1.00	25.25
ATOM	3364	CA	ASP	1139	85.912	22.792	72.995	1.00	25.95
ATOM	3365	CB	ASP	1139	85.970	24.133	72.279	1.00	27.44
ATOM	3366	CG	ASP	1139	86.703	25.178	73.082	1.00	27.08
ATOM	3367	OD1	ASP	1139	87.456	24.798	74.002	1.00	30.01
ATOM	3368	OD2	ASP	1139	86.525	26.377	72.801	1.00	27.97
ATOM	3369	C	ASP	1139	87.297	22.169	72.945	1.00	25.77
ATOM	3370	O	ASP	1139	88.031	22.381	71.981	1.00	24.95
ATOM	3371	N	GLY	1140	87.663	21.408	73.967	1.00	26.34
ATOM	3372	CA	GLY	1140	88.969	20.779	73.949	1.00	27.58
ATOM	3373	C	GLY	1140	89.040	19.715	72.864	1.00	27.68
ATOM	3374	O	GLY	1140	90.092	19.493	72.261	1.00	28.02
ATOM	3375	N	ALA	1141	87.909	19.066	72.603	1.00	27.29
ATOM	3376	CA	ALA	1141	87.839	18.002	71.607	1.00	26.98
ATOM	3377	CB	ALA	1141	86.521	17.254	71.744	1.00	25.36
ATOM	3378	C	ALA	1141	88.005	18.491	70.179	1.00	27.14
ATOM	3379	O	ALA	1141	88.181	17.689	69.259	1.00	26.92
ATOM	3380	N	PHE	1142	87.946	19.803	69.990	1.00	27.35
ATOM	3381	CA	PHE	1142	88.086	20.378	68.661	1.00	28.40
ATOM	3382	CB	PHE	1142	87.468	21.775	68.616	1.00	30.04

Table_1

ATOM	3383	CG	PHE	1142	85.969	21.784	68.699	1.00	31.23
ATOM	3384	CD1	PHE	1142	85.219	20.692	68.270	1.00	30.74
ATOM	3385	CD2	PHE	1142	85.305	22.892	69.205	1.00	31.55
ATOM	3386	CE1	PHE	1142	83.829	20.707	68.344	1.00	30.60
ATOM	3387	CE2	PHE	1142	83.917	22.918	69.284	1.00	32.92
ATOM	3388	CZ	PHE	1142	83.176	21.823	68.853	1.00	31.48
ATOM	3389	C	PHE	1142	89.545	20.487	68.251	1.00	29.02
ATOM	3390	O	PHE	1142	89.854	20.738	67.088	1.00	28.73
ATOM	3391	N	PHE	1143	90.442	20.289	69.207	1.00	29.36
ATOM	3392	CA	PHE	1143	91.863	20.413	68.935	1.00	30.93
ATOM	3393	CB	PHE	1143	92.492	21.319	69.996	1.00	30.06
ATOM	3394	CG	PHE	1143	91.902	22.701	70.020	1.00	28.41
ATOM	3395	CD1	PHE	1143	90.691	22.944	70.656	1.00	27.64
ATOM	3396	CD2	PHE	1143	92.531	23.748	69.361	1.00	28.31
ATOM	3397	CE1	PHE	1143	90.110	24.209	70.628	1.00	27.55
ATOM	3398	CE2	PHE	1143	91.960	25.015	69.327	1.00	28.57
ATOM	3399	CZ	PHE	1143	90.746	25.246	69.963	1.00	28.09
ATOM	3400	C	PHE	1143	92.612	19.091	68.848	1.00	31.78
ATOM	3401	O	PHE	1143	93.766	18.994	69.255	1.00	32.99
ATOM	3402	N	LYS	1144	91.952	18.080	68.296	1.00	32.60
ATOM	3403	CA	LYS	1144	92.548	16.761	68.146	1.00	33.22
ATOM	3404	CB	LYS	1144	91.537	15.806	67.503	1.00	34.67
ATOM	3405	CG	LYS	1144	92.156	14.589	66.828	1.00	35.25
ATOM	3406	CD	LYS	1144	91.094	13.628	66.328	1.00	37.40

Table_1

ATOM	3407	CE	LYS	1144	91.716	12.376	65.736	1.00	37.50
ATOM	3408	NZ	LYS	1144	90.772	11.223	65.777	1.00	38.92
ATOM	3409	C	LYS	1144	93.807	16.836	67.291	1.00	33.24
ATOM	3410	O	LYS	1144	93.769	17.322	66.165	1.00	32.88
ATOM	3411	N	ASN	1145	94.920	16.354	67.839	1.00	33.15
ATOM	3412	CA	ASN	1145	96.202	16.345	67.142	1.00	33.04
ATOM	3413	CB	ASN	1145	96.094	15.529	65.854	1.00	34.01
ATOM	3414	CG	ASN	1145	95.974	14.045	66.116	1.00	34.85
ATOM	3415	OD1	ASN	1145	95.681	13.271	65.211	1.00	37.01
ATOM	3416	ND2	ASN	1145	96.200	13.640	67.360	1.00	35.06
ATOM	3417	C	ASN	1145	96.704	17.740	66.808	1.00	33.04
ATOM	3418	O	ASN	1145	97.247	17.964	65.728	1.00	33.78
ATOM	3419	N	LYS	1146	96.532	18.674	67.737	1.00	32.95
ATOM	3420	CA	LYS	1146	96.967	20.048	67.520	1.00	31.78
ATOM	3421	CB	LYS	1146	95.764	20.990	67.519	1.00	31.85
ATOM	3422	CG	LYS	1146	94.636	20.548	66.611	1.00	32.89
ATOM	3423	CD	LYS	1146	94.226	21.675	65.677	1.00	34.15
ATOM	3424	CE	LYS	1146	93.834	21.150	64.303	1.00	34.35
ATOM	3425	NZ	LYS	1146	95.006	20.715	63.490	1.00	34.55
ATOM	3426	C	LYS	1146	97.953	20.514	68.574	1.00	30.78
ATOM	3427	O	LYS	1146	98.070	19.918	69.643	1.00	30.50
ATOM	3428	N	ARG	1147	98.647	21.599	68.261	1.00	30.38
ATOM	3429	CA	ARG	1147	99.631	22.178	69.159	1.00	31.71
ATOM	3430	CB	ARG	1147	100.785	22.744	68.342	1.00	33.67

Table_1

ATOM	3431	CG	ARG	1147	101.636	23.694	69.122	1.00	39.12
ATOM	3432	CD	ARG	1147	103.089	23.287	69.126	1.00	42.48
ATOM	3433	NE	ARG	1147	103.911	24.487	69.145	1.00	45.43
ATOM	3434	CZ	ARG	1147	104.530	24.943	70.226	1.00	46.50
ATOM	3435	NH1	ARG	1147	104.418	24.297	71.380	1.00	46.22
ATOM	3436	NH2	ARG	1147	105.232	26.063	70.158	1.00	46.53
ATOM	3437	C	ARG	1147	98.954	23.283	69.962	1.00	30.08
ATOM	3438	O	ARG	1147	98.553	24.301	69.401	1.00	30.60
ATOM	3439	N	LEU	1148	98.841	23.088	71.272	1.00	28.97
ATOM	3440	CA	LEU	1148	98.163	24.057	72.122	1.00	28.01
ATOM	3441	CB	LEU	1148	97.013	23.375	72.867	1.00	27.17
ATOM	3442	CG	LEU	1148	95.799	22.940	72.046	1.00	25.97
ATOM	3443	CD1	LEU	1148	94.763	22.344	72.974	1.00	24.26
ATOM	3444	CD2	LEU	1148	95.222	24.125	71.297	1.00	26.41
ATOM	3445	C	LEU	1148	99.029	24.770	73.139	1.00	28.79
ATOM	3446	O	LEU	1148	100.117	24.312	73.491	1.00	28.58
ATOM	3447	N	PHE	1149	98.511	25.898	73.612	1.00	28.68
ATOM	3448	CA	PHE	1149	99.175	26.707	74.617	1.00	28.27
ATOM	3449	CB	PHE	1149	99.640	28.032	74.017	1.00	28.33
ATOM	3450	CG	PHE	1149	101.006	27.967	73.415	1.00	28.85
ATOM	3451	CD1	PHE	1149	101.166	27.810	72.047	1.00	28.86
ATOM	3452	CD2	PHE	1149	102.137	28.049	74.217	1.00	28.60
ATOM	3453	CE1	PHE	1149	102.435	27.730	71.482	1.00	29.09
ATOM	3454	CE2	PHE	1149	103.411	27.970	73.662	1.00	27.81

Table_1

ATOM	3455	CZ	PHE	1149	103.559	27.811	72.293	1.00	27.39
ATOM	3456	C	PHE	1149	98.171	26.967	75.725	1.00	27.39
ATOM	3457	O	PHE	1149	96.985	27.142	75.464	1.00	26.67
ATOM	3458	N	VAL	1150	98.650	26.971	76.962	1.00	27.81
ATOM	3459	CA	VAL	1150	97.794	27.215	78.111	1.00	29.12
ATOM	3460	CB	VAL	1150	97.627	25.954	78.959	1.00	28.30
ATOM	3461	CG1	VAL	1150	97.006	26.307	80.292	1.00	28.21
ATOM	3462	CG2	VAL	1150	96.761	24.955	78.222	1.00	29.32
ATOM	3463	C	VAL	1150	98.438	28.294	78.960	1.00	30.63
ATOM	3464	O	VAL	1150	99.584	28.154	79.382	1.00	30.70
ATOM	3465	N	ILE	1151	97.697	29.370	79.205	1.00	32.06
ATOM	3466	CA	ILE	1151	98.210	30.479	79.994	1.00	32.05
ATOM	3467	CB	ILE	1151	97.790	31.831	79.396	1.00	31.88
ATOM	3468	CG2	ILE	1151	98.636	32.938	79.994	1.00	30.68
ATOM	3469	CG1	ILE	1151	97.947	31.801	77.871	1.00	30.67
ATOM	3470	CD1	ILE	1151	99.316	31.360	77.397	1.00	28.69
ATOM	3471	C	ILE	1151	97.734	30.421	81.435	1.00	32.84
ATOM	3472	O	ILE	1151	96.547	30.576	81.717	1.00	32.55
ATOM	3473	N	GLY	1152	98.683	30.203	82.340	1.00	33.79
ATOM	3474	CA	GLY	1152	98.376	30.112	83.754	1.00	34.02
ATOM	3475	C	GLY	1152	99.307	29.126	84.434	1.00	34.24
ATOM	3476	O	GLY	1152	99.986	28.348	83.768	1.00	35.01
ATOM	3477	N	GLY	1153	99.344	29.160	85.761	1.00	33.75
ATOM	3478	CA	GLY	1153	100.199	28.252	86.499	1.00	32.87

Table_1

ATOM	3479	C	GLY	1153	99.498	27.771	87.752	1.00	33.81
ATOM	3480	O	GLY	1153	100.143	27.456	88.754	1.00	33.39
ATOM	3481	N	GLY	1154	98.170	27.719	87.695	1.00	33.43
ATOM	3482	CA	GLY	1154	97.396	27.276	88.838	1.00	33.05
ATOM	3483	C	GLY	1154	96.767	25.921	88.608	1.00	33.39
ATOM	3484	O	GLY	1154	97.075	25.241	87.629	1.00	33.74
ATOM	3485	N	ASP	1155	95.880	25.530	89.516	1.00	32.74
ATOM	3486	CA	ASP	1155	95.197	24.249	89.422	1.00	32.20
ATOM	3487	CB	ASP.	1155	94.176	24.123	90.552	1.00	30.74
ATOM	3488	CG	ASP	1155	94.825	23.853	91.892	1.00	30.31
ATOM	3489	OD1	ASP	1155	96.061	23.688	91.927	1.00	30.72
ATOM	3490	OD2	ASP	1155	94.105	23.804	92.911	1.00	30.68
ATOM	3491	C	ASP	1155	94.500	24.093	88.077	1.00	32.30
ATOM	3492	O	ASP	1155	94.792	23.173	87.318	1.00	32.83
ATOM	3493	N	SER	1156	93.578	24.999	87.786	1.00	32.91
ATOM	3494	CA	SER	1156	92.837	24.962	86.532	1.00	32.97
ATOM	3495	CB	SER	1156	92.014	26.238	86.386	1.00	33.93
ATOM	3496	OG	SER	1156	92.855	27.375	86.485	1.00	35.81
ATOM	3497	C	SER	1156	93.780	24.830	85.346	1.00	32.06
ATOM	3498	O	SER	1156	93.644	23.926	84.520	1.00	32.23
ATOM	3499	N	ALA	1157	94.737	25.746	85.264	1.00	31.56
ATOM	3500	CA	ALA	1157	95.707	25.740	84.175	1.00	30.95
ATOM	3501	CB	ALA	1157	96.753	26.812	84.412	1.00	31.21
ATOM	3502	C	ALA	1157	96.373	24.383	84.025	1.00	30.27

Table_1

ATOM	3503	O	ALA	1157	96.579	23.904	82.911	1.00	30.08
ATOM	3504	N	VAL	1158	96.706	23.759	85.146	1.00	30.35
ATOM	3505	CA	VAL	1158	97.356	22.457	85.113	1.00	30.03
ATOM	3506	CB	VAL	1158	98.186	22.250	86.390	1.00	29.92
ATOM	3507	CG1	VAL	1158	98.797	20.857	86.407	1.00	28.94
ATOM	3508	CG2	VAL	1158	99.284	23.300	86.464	1.00	28.37
ATOM	3509	C	VAL	1158	96.388	21.298	84.941	1.00	30.69
ATOM	3510	O	VAL	1158	96.729	20.307	84.298	1.00	31.86
ATOM	3511	N	GLU	1159	95.191	21.417	85.503	1.00	30.61
ATOM	3512	CA	GLU	1159	94.207	20.365	85.386	1.00	30.69
ATOM	3513	CB	GLU	1159	93.041	20.619	86.351	1.00	32.88
ATOM	3514	CG	GLU	1159	92.098	19.444	86.493	1.00	36.78
ATOM	3515	CD	GLU	1159	90.992	19.683	87.482	1.00	39.02
ATOM	3516	OE1	GLU	1159	90.988	20.743	88.135	1.00	39.29
ATOM	3517	OE2	GLU	1159	90.125	18.797	87.601	1.00	39.29
ATOM	3518	C	GLU	1159	93.706	20.339	83.953	1.00	31.06
ATOM	3519	O	GLU	1159	93.720	19.297	83.312	1.00	30.98
ATOM	3520	N	GLU	1160	93.278	21.483	83.426	1.00	30.64
ATOM	3521	CA	GLU	1160	92.760	21.525	82.062	1.00	30.71
ATOM	3522	CB	GLU	1160	92.042	22.849	81.810	1.00	32.62
ATOM	3523	CG	GLU	1160	90.876	23.110	82.777	1.00	35.08
ATOM	3524	CD	GLU	1160	89.654	23.657	82.078	1.00	36.26
ATOM	3525	OE1	GLU	1160	89.766	23.998	80.885	1.00	36.21
ATOM	3526	OE2	GLU	1160	88.584	23.747	82.717	1.00	38.02

Table_1

ATOM	3527	C	GLU	1160	93.858	21.306	81.041	1.00	30.10
ATOM	3528	O	GLU	1160	93.597	20.831	79.938	1.00	29.95
ATOM	3529	N	GLY	1161	95.085	21.643	81.421	1.00	29.64
ATOM	3530	CA	GLY	1161	96.209	21.470	80.527	1.00	28.68
ATOM	3531	C	GLY	1161	96.466	20.005	80.243	1.00	29.11
ATOM	3532	O	GLY	1161	96.786	19.631	79.120	1.00	28.32
ATOM	3533	N	THR	1162	96.319	19.170	81.264	1.00	29.52
ATOM	3534	CA	THR	1162	96.541	17.743	81.106	1.00	30.68
ATOM	3535	CB	THR	1162	96.661	17.051	82.464	1.00	30.76
ATOM	3536	OG1	THR	1162	95.484	17.316	83.234	1.00	31.49
ATOM	3537	CG2	THR	1162	97.880	17.568	83.214	1.00	30.36
ATOM	3538	C	THR	1162	95.379	17.140	80.343	1.00	30.32
ATOM	3539	O	THR	1162	95.571	16.338	79.432	1.00	30.26
ATOM	3540	N	PHE	1163	94.168	17.538	80.718	1.00	30.73
ATOM	3541	CA	PHE	1163	92.966	17.043	80.061	1.00	30.86
ATOM	3542	CB	PHE	1163	91.721	17.733	80.629	1.00	31.52
ATOM	3543	CG	PHE	1163	90.446	17.401	79.891	1.00	33.41
ATOM	3544	CD1	PHE	1163	89.856	16.148	80.017	1.00	33.70
ATOM	3545	CD2	PHE	1163	89.821	18.352	79.090	1.00	33.09
ATOM	3546	CE1	PHE	1163	88.663	15.844	79.352	1.00	34.10
ATOM	3547	CE2	PHE	1163	88.628	18.057	78.421	1.00	32.50
ATOM	3548	CZ	PHE	1163	88.048	16.803	78.556	1.00	32.41
ATOM	3549	C	PHE	1163	93.066	17.322	78.576	1.00	29.63
ATOM	3550	O	PHE	1163	92.660	16.514	77.756	1.00	30.31

Table_1

ATOM	3551	N	LEU	1164	93.625	18.473	78.232	1.00	29.16
ATOM	3552	CA	LEU	1164	93.759	18.848	76.832	1.00	28.82
ATOM	3553	CB	LEU	1164	94.215	20.302	76.724	1.00	27.06
ATOM	3554	CG	LEU	1164	93.188	21.384	77.087	1.00	25.99
ATOM	3555	CD1	LEU	1164	93.812	22.762	76.943	1.00	24.17
ATOM	3556	CD2	LEU	1164	91.976	21.271	76.184	1.00	24.80
ATOM	3557	C	LEU	1164	94.698	17.948	76.027	1.00	29.46
ATOM	3558	O	LEU	1164	94.589	17.885	74.803	1.00	29.53
ATOM	3559	N	THR	1165	95.621	17.261	76.700	1.00	29.85
ATOM	3560	CA	THR	1165	96.535	16.371	75.993	1.00	30.10
ATOM	3561	CB	THR	1165	97.676	15.882	76.893	1.00	30.35
ATOM	3562	OG1	THR	1165	97.163	14.947	77.840	1.00	31.30
ATOM	3563	CG2	THR	1165	98.295	17.042	77.637	1.00	31.66
ATOM	3564	C	THR	1165	95.752	15.176	75.477	1.00	30.55
ATOM	3565	O	THR	1165	96.273	14.363	74.715	1.00	30.85
ATOM	3566	N	LYS	1166	94.495	15.078	75.898	1.00	29.85
ATOM	3567	CA	LYS	1166	93.634	13.986	75.451	1.00	28.36
ATOM	3568	CB	LYS	1166	92.301	14.003	76.185	1.00	29.33
ATOM	3569	CG	LYS	1166	92.418	13.834	77.653	1.00	30.19
ATOM	3570	CD	LYS	1166	92.358	12.387	78.027	1.00	30.77
ATOM	3571	CE	LYS	1166	92.428	12.248	79.524	1.00	32.28
ATOM	3572	NZ	LYS	1166	92.500	10.815	79.871	1.00	33.99
ATOM	3573	C	LYS	1166	93.317	14.148	73.974	1.00	27.78
ATOM	3574	O	LYS	1166	92.861	13.208	73.334	1.00	28.77

Table_1

ATOM	3575	N	PHE	1167	93.545	15.350	73.451	1.00	26.75
ATOM	3576	CA	PHE	1167	93.250	15.662	72.061	1.00	25.58
ATOM	3577	CB	PHE	1167	92.048	16.622	71.998	1.00	24.45
ATOM	3578	CG	PHE	1167	91.045	16.433	73.117	1.00	24.01
ATOM	3579	CD1	PHE	1167	91.114	17.199	74.276	1.00	25.15
ATOM	3580	CD2	PHE	1167	90.038	15.477	73.010	1.00	24.90
ATOM	3581	CE1	PHE	1167	90.189	17.016	75.308	1.00	26.52
ATOM	3582	CE2	PHE	1167	89.113	15.289	74.035	1.00	23.77
ATOM	3583	CZ	PHE	1167	89.192	16.053	75.184	1.00	25.30
ATOM	3584	C	PHE	1167	94.447	16.271	71.340	1.00	25.77
ATOM	3585	O	PHE	1167	94.726	15.935	70.188	1.00	25.47
ATOM	3586	N	ALA	1168	95.163	17.158	72.022	1.00	25.50
ATOM	3587	CA	ALA	1168	96.326	17.798	71.416	1.00	25.75
ATOM	3588	CB	ALA	1168	96.658	19.100	72.141	1.00	25.98
ATOM	3589	C	ALA	1168	97.551	16.903	71.415	1.00	26.49
ATOM	3590	O	ALA	1168	97.690	16.010	72.248	1.00	26.62
ATOM	3591	N	ASP	1169	98.443	17.166	70.470	1.00	27.86
ATOM	3592	CA	ASP	1169	99.683	16.422	70.337	1.00	29.13
ATOM	3593	CB	ASP	1169	100.184	16.486	68.896	1.00	30.78
ATOM	3594	CG	ASP	1169	99.457	15.528	67.981	1.00	33.58
ATOM	3595	OD1	ASP	1169	99.682	15.598	66.755	1.00	35.69
ATOM	3596	OD2	ASP	1169	98.662	14.704	68.482	1.00	36.22
ATOM	3597	C	ASP	1169	100.711	17.071	71.250	1.00	29.60
ATOM	3598	O	ASP	1169	101.688	16.446	71.652	1.00	30.28

Table_1

ATOM	3599	N	LYS	1170	100.482	18.330	71.591	1.00	30.49
ATOM	3600	CA	LYS	1170	101.423	19.042	72.435	1.00	31.96
ATOM	3601	CB	LYS	1170	102.524	19.645	71.554	1.00	32.95
ATOM	3602	CG	LYS	1170	103.838	19.928	72.266	1.00	34.75
ATOM	3603	CD	LYS	1170	104.814	20.650	71.339	1.00	37.27
ATOM	3604	CE	LYS	1170	105.410	19.702	70.305	1.00	38.85
ATOM	3605	NZ	LYS	1170	105.570	20.354	68.975	1.00	39.89
ATOM	3606	C	LYS	1170	100.764	20.149	73.250	1.00	31.72
ATOM	3607	O	LYS	1170	100.128	21.043	72.690	1.00	31.75
ATOM	3608	N	VAL	1171	100.909	20.096	74.567	1.00	30.12
ATOM	3609	CA	VAL	1171	100.346	21.136	75.401	1.00	29.69
ATOM	3610	CB	VAL	1171	99.259	20.588	76.339	1.00	29.50
ATOM	3611	CG1	VAL	1171	98.719	21.711	77.215	1.00	29.89
ATOM	3612	CG2	VAL	1171	98.128	19.979	75.519	1.00	29.98
ATOM	3613	C	VAL	1171	101.428	21.814	76.232	1.00	28.27
ATOM	3614	O	VAL	1171	101.984	21.228	77.151	1.00	26.96
ATOM	3615	N	THR	1172	101.721	23.058	75.872	1.00	27.79
ATOM	3616	CA	THR	1172	102.726	23.850	76.576	1.00	27.70
ATOM	3617	CB	THR	1172	103.558	24.686	75.584	1.00	28.14
ATOM	3618	OG1	THR	1172	104.313	23.803	74.747	1.00	29.27
ATOM	3619	CG2	THR	1172	104.494	25.614	76.322	1.00	25.79
ATOM	3620	C	THR	1172	102.055	24.789	77.565	1.00	26.88
ATOM	3621	O	THR	1172	101.127	25.512	77.224	1.00	26.17
ATOM	3622	N	ILE	1173	102.521	24.767	78.800	1.00	27.21

Table_1

ATOM	3623	CA	ILE	1173	101.957	25.630	79.820	1.00	27.38
ATOM	3624	CB	ILE	1173	101.806	24.876	81.138	1.00	26.70
ATOM	3625	CG2	ILE	1173	101.464	25.844	82.244	1.00	25.65
ATOM	3626	CG1	ILE	1173	100.727	23.802	81.007	1.00	26.44
ATOM	3627	CD1	ILE	1173	100.654	22.854	82.197	1.00	26.29
ATOM	3628	C	ILE	1173	102.885	26.830	80.031	1.00	28.47
ATOM	3629	O	ILE	1173	104.057	26.657	80.359	1.00	29.56
ATOM	3630	N	VAL	1174	102.372	28.040	79.831	1.00	28.21
ATOM	3631	CA	VAL	1174	103.180	29.236	80.024	1.00	27.71
ATOM	3632	CB	VAL	1174	102.890	30.270	78.936	1.00	26.60
ATOM	3633	CG1	VAL	1174	103.863	31.426	79.047	1.00	24.12
ATOM	3634	CG2	VAL	1174	102.998	29.610	77.568	1.00	27.33
ATOM	3635	C	VAL	1174	102.871	29.838	81.390	1.00	28.35
ATOM	3636	O	VAL	1174	101.708	29.946	81.774	1.00	28.26
ATOM	3637	N	HIS	1175	103.917	30.231	82.115	1.00	28.82
ATOM	3638	CA	HIS	1175	103.752	30.788	83.454	1.00	29.81
ATOM	3639	CB	HIS	1175	104.127	29.726	84.490	1.00	29.34
ATOM	3640	CG	HIS	1175	103.761	30.082	85.895	1.00	29.07
ATOM	3641	CD2	HIS	1175	104.349	29.759	87.076	1.00	30.19
ATOM	3642	ND1	HIS	1175	102.682	30.873	86.209	1.00	29.04
ATOM	3643	CE1	HIS	1175	102.615	31.025	87.521	1.00	29.12
ATOM	3644	NE2	HIS	1175	103.617	30.359	88.066	1.00	30.05
ATOM	3645	C	HIS	1175	104.519	32.085	83.746	1.00	31.26
ATOM	3646	O	HIS	1175	105.580	32.348	83.181	1.00	30.24

Table_1

ATOM	3647	N	ARG	1176	103.970	32.882	84.661	1.00	34.34
ATOM	3648	CA	ARG	1176	104.570	34.163	85.020	1.00	37.02
ATOM	3649	CB	ARG	1176	103.566	35.017	85.804	1.00	38.91
ATOM	3650	CG	ARG	1176	102.685	35.902	84.937	1.00	43.05
ATOM	3651	CD	ARG	1176	102.676	37.383	85.382	1.00	46.09
ATOM	3652	NE	ARG	1176	102.106	38.263	84.350	1.00	51.66
ATOM	3653	CZ	ARG	1176	102.538	39.494	84.080	1.00	54.53
ATOM	3654	NH1	ARG	1176	103.539	40.001	84.785	1.00	54.98
ATOM	3655	NH2	ARG	1176	101.967	40.228	83.123	1.00	55.54
ATOM	3656	C	ARG	1176	105.875	34.072	85.808	1.00	37.52
ATOM	3657	O	ARG	1176	106.806	34.836	85.566	1.00	37.31
ATOM	3658	N	ARG	1177	105.906	33.146	86.766	1.00	38.59
ATOM	3659	CA	ARG	1177	107.083	32.969	87.607	1.00	39.81
ATOM	3660	CB	ARG	1177	106.667	33.048	89.093	1.00	40.99
ATOM	3661	CG	ARG	1177	106.783	34.456	89.666	1.00	41.92
ATOM	3662	CD	ARG	1177	105.427	35.144	89.894	1.00	41.12
ATOM	3663	NE	ARG	1177	104.328	34.199	90.073	1.00	41.26
ATOM	3664	CZ	ARG	1177	103.107	34.355	89.569	1.00	40.66
ATOM	3665	NH1	ARG	1177	102.798	35.418	88.839	1.00	41.36
ATOM	3666	NH2	ARG	1177	102.199	33.413	89.763	1.00	41.05
ATOM	3667	C	ARG	1177	107.723	31.610	87.311	1.00	40.33
ATOM	3668	O	ARG	1177	107.202	30.828	86.508	1.00	39.55
ATOM	3669	N	ASP	1178	108.841	31.318	87.970	1.00	41.29
ATOM	3670	CA	ASP	1178	109.482	30.039	87.706	1.00	42.27

Table_1

ATOM	3671	CB	ASP	1178	110.974	30.110	87.969	1.00	43.74
ATOM	3672	CG	ASP	1178	111.658	31.031	87.043	1.00	45.78
ATOM	3673	OD1	ASP	1178	111.548	30.826	85.818	1.00	46.16
ATOM	3674	OD2	ASP	1178	112.277	31.978	87.557	1.00	48.16
ATOM	3675	C	ASP	1178	108.951	28.854	88.482	1.00	42.17
ATOM	3676	O	ASP	1178	109.552	27.792	88.444	1.00	41.30
ATOM	3677	N	GLU	1179	107.832	28.999	89.173	1.00	43.21
ATOM	3678	CA	GLU	1179	107.323	27.894	89.984	1.00	43.29
ATOM	3679	CB	GLU	1179	107.641	28.206	91.446	1.00	45.36
ATOM	3680	CG	GLU	1179	107.192	27.208	92.489	1.00	50.04
ATOM	3681	CD	GLU	1179	107.578	27.657	93.899	1.00	53.24
ATOM	3682	OE1	GLU	1179	108.362	28.625	94.034	1.00	56.25
ATOM	3683	OE2	GLU	1179	107.098	27.042	94.875	1.00	55.52
ATOM	3684	C	GLU	1179	105.824	27.723	89.791	1.00	42.81
ATOM	3685	O	GLU	1179	105.124	28.703	89.592	1.00	43.17
ATOM	3686	N	LEU	1180	105.322	26.496	89.875	1.00	42.01
ATOM	3687	CA	LEU	1180	103.898	26.275	89.668	1.00	40.37
ATOM	3688	CB	LEU	1180	103.681	24.933	88.979	1.00	39.40
ATOM	3689	CG	LEU	1180	103.587	24.989	87.461	1.00	38.21
ATOM	3690	CD1	LEU	1180	103.736	23.587	86.914	1.00	39.10
ATOM	3691	CD2	LEU	1180	102.250	25.591	87.049	1.00	37.77
ATOM	3692	C	LEU	1180	103.127	26.298	90.971	1.00	41.07
ATOM	3693	O	LEU	1180	103.485	25.602	91.927	1.00	40.78
ATOM	3694	N	ARG	1181	102.056	27.089	91.009	1.00	41.69

Table_1

ATOM	3695	CA	ARG	1181	101.234	27.200	92.218	1.00	43.30
ATOM	3696	CB	ARG	1181	100.543	28.587	92.305	1.00	43.59
ATOM	3697	CG	ARG	1181	99.400	28.777	91.359	1.00	46.03
ATOM	3698	CD	ARG	1181	98.769	30.149	91.560	1.00	47.31
ATOM	3699	NE	ARG	1181	97.641	30.321	90.655	1.00	48.67
ATOM	3700	CZ	ARG	1181	96.942	31.440	90.521	1.00	49.59
ATOM	3701	NH1	ARG	1181	95.936	31.479	89.659	1.00	50.94
ATOM	3702	NH2	ARG	1181	97.230	32.507	91.258	1.00	49.78
ATOM	3703	C	ARG	1181	100.182	26.104	92.292	1.00	43.53
ATOM	3704	O	ARG	1181	99.384	26.049	93.234	1.00	44.27
ATOM	3705	N	ALA	1182	100.135	25.251	91.277	1.00	42.76
ATOM	3706	CA	ALA	1182	99.170	24.155	91.271	1.00	42.68
ATOM	3707	CB	ALA	1182	99.352	23.303	90.041	1.00	42.42
ATOM	3708	C	ALA	1182	99.364	23.294	92.516	1.00	42.85
ATOM	3709	O	ALA	1182	100.109	23.656	93.429	1.00	43.52
ATOM	3710	N	GLN	1183	98.665	22.162	92.537	1.00	43.14
ATOM	3711	CA	GLN	1183	98.728	21.181	93.623	1.00	41.86
ATOM	3712	CB	GLN	1183	97.457	20.340	93.642	1.00	44.16
ATOM	3713	CG	GLN	1183	96.969	19.989	95.025	1.00	47.92
ATOM	3714	CD	GLN	1183	95.455	19.848	95.069	1.00	50.52
ATOM	3715	OE1	GLN	1183	94.789	19.837	94.024	1.00	50.88
ATOM	3716	NE2	GLN	1183	94.901	19.744	96.277	1.00	52.11
ATOM	3717	C	GLN	1183	99.893	20.247	93.358	1.00	41.07
ATOM	3718	O	GLN	1183	100.299	20.072	92.209	1.00	39.38

Table_1

ATOM	3719	N	ARG	1184	100.428	19.634	94.409	1.00	40.32
ATOM	3720	CA	ARG	1184	101.536	18.708	94.212	1.00	40.85
ATOM	3721	CB	ARG	1184	101.937	18.016	95.527	1.00	42.46
ATOM	3722	CG	ARG	1184	103.340	17.389	95.493	1.00	44.25
ATOM	3723	CD	ARG	1184	103.542	16.341	96.595	1.00	47.22
ATOM	3724	NE	ARG	1184	104.862	16.429	97.226	1.00	49.55
ATOM	3725	CZ	ARG	1184	105.145	17.198	98.278	1.00	51.41
ATOM	3726	NH1	ARG	1184	104.198	17.949	98.832	1.00	51.81
ATOM	3727	NH2	ARG	1184	106.380	17.228	98.772	1.00	50.79
ATOM	3728	C	ARG	1184	101.050	17.673	93.203	1.00	40.48
ATOM	3729	O	ARG	1184	101.642	17.510	92.138	1.00	39.82
ATOM	3730	N	ILE	1185	99.946	17.005	93.527	1.00	39.42
ATOM	3731	CA	ILE	1185	99.391	15.988	92.641	1.00	38.81
ATOM	3732	CB	ILE	1185	98.009	15.508	93.121	1.00	39.04
ATOM	3733	CG2	ILE	1185	98.166	14.635	94.341	1.00	40.31
ATOM	3734	CG1	ILE	1185	97.116	16.703	93.444	1.00	39.47
ATOM	3735	CD1	ILE	1185	95.757	16.631	92.784	1.00	39.88
ATOM	3736	C	ILE	1185	99.247	16.494	91.217	1.00	37.44
ATOM	3737	O	ILE	1185	99.835	15.935	90.292	1.00	37.27
ATOM	3738	N	LEU	1186	98.460	17.551	91.045	1.00	36.95
ATOM	3739	CA	LEU	1186	98.237	18.118	89.723	1.00	36.43
ATOM	3740	CB	LEU	1186	97.382	19.385	89.826	1.00	35.29
ATOM	3741	CG	LEU	1186	95.921	19.139	90.218	1.00	34.25
ATOM	3742	CD1	LEU	1186	95.195	20.469	90.367	1.00	33.48

Table_1

ATOM	3743	CD2	LEU	1186	95.244	18.278	89.168	1.00	31.97
ATOM	3744	C	LEU	1186	99.576	18.434	89.091	1.00	35.64
ATOM	3745	O	LEU	1186	99.756	18.322	87.880	1.00	35.43
ATOM	3746	N	GLN	1187	100.524	18.818	89.932	1.00	35.79
ATOM	3747	CA	GLN	1187	101.860	19.143	89.471	1.00	34.65
ATOM	3748	CB	GLN	1187	102.645	19.808	90.593	1.00	34.34
ATOM	3749	CG	GLN	1187	102.591	21.315	90.555	1.00	33.91
ATOM	3750	CD	GLN	1187	103.772	21.941	91.250	1.00	34.02
ATOM	3751	OE1	GLN	1187	103.636	22.951	91.934	1.00	34.17
ATOM	3752	NE2	GLN	1187	104.943	21.340	91.083	1.00	35.59
ATOM	3753	C	GLN	1187	102.585	17.887	89.010	1.00	35.00
ATOM	3754	O	GLN	1187	103.143	17.853	87.916	1.00	34.71
ATOM	3755	N	ASP	1188	102.570	16.854	89.845	1.00	36.72
ATOM	3756	CA	ASP	1188	103.239	15.599	89.513	1.00	38.66
ATOM	3757	CB	ASP	1188	103.122	14.618	90.687	1.00	39.97
ATOM	3758	CG	ASP	1188	103.892	15.085	91.911	1.00	42.19
ATOM	3759	OD1	ASP	1188	104.852	15.866	91.741	1.00	42.96
ATOM	3760	OD2	ASP	1188	103.540	14.678	93.042	1.00	43.23
ATOM	3761	C	ASP	1188	102.648	14.986	88.244	1.00	38.92
ATOM	3762	O	ASP	1188	103.376	14.474	87.387	1.00	39.76
ATOM	3763	N	ARG	1189	101.326	15.055	88.126	1.00	38.07
ATOM	3764	CA	ARG	1189	100.623	14.524	86.965	1.00	36.69
ATOM	3765	CB	ARG	1189	99.115	14.749	87.126	1.00	36.80
ATOM	3766	CG	ARG	1189	98.271	14.261	85.957	1.00	36.37

Table_1

ATOM	3767	CD	ARG	1189	96.843	14.781	86.045	1.00	35.06
ATOM	3768	NE	ARG	1189	96.218	14.467	87.329	1.00	34.60
ATOM	3769	CZ	ARG	1189	94.977	14.813	87.662	1.00	32.15
ATOM	3770	NH1	ARG	1189	94.487	14.486	88.851	1.00	30.31
ATOM	3771	NH2	ARG	1189	94.226	15.486	86.804	1.00	31.57
ATOM	3772	C	ARG	1189	101.112	15.200	85.687	1.00	36.80
ATOM	3773	O	ARG	1189	101.302	14.547	84.660	1.00	36.67
ATOM	3774	N	ALA	1190	101.327	16.510	85.758	1.00	36.37
ATOM	3775	CA	ALA	1190	101.777	17.277	84.602	1.00	36.25
ATOM	3776	CB	ALA	1190	101.603	18.766	84.874	1.00	35.89
ATOM	3777	C	ALA	1190	103.220	16.986	84.215	1.00	36.20
ATOM	3778	O	ALA	1190	103.593	17.093	83.048	1.00	35.72
ATOM	3779	N	PHE	1191	104.035	16.624	85.196	1.00	36.83
ATOM	3780	CA	PHE	1191	105.433	16.325	84.930	1.00	36.55
ATOM	3781	CB	PHE	1191	106.234	16.443	86.221	1.00	36.20
ATOM	3782	CG	PHE	1191	106.287	17.841	86.770	1.00	36.32
ATOM	3783	CD1	PHE	1191	106.065	18.085	88.122	1.00	36.49
ATOM	3784	CD2	PHE	1191	106.557	18.916	85.933	1.00	36.10
ATOM	3785	CE1	PHE	1191	106.117	19.380	88.633	1.00	35.87
ATOM	3786	CE2	PHE	1191	106.612	20.214	86.430	1.00	36.62
ATOM	3787	CZ	PHE	1191	106.389	20.447	87.785	1.00	36.51
ATOM	3788	C	PHE	1191	105.569	14.927	84.344	1.00	37.23
ATOM	3789	O	PHE	1191	106.421	14.675	83.494	1.00	37.58
ATOM	3790	N	LYS	1192	104.715	14.021	84.797	1.00	37.93

Table_1

ATOM	3791	CA	LYS	1192	104.735	12.655	84.312	1.00	39.12
ATOM	3792	CB	LYS	1192	103.911	11.772	85.253	1.00	41.41
ATOM	3793	CG	LYS	1192	103.721	10.342	84.782	1.00	46.29
ATOM	3794	CD	LYS	1192	104.873	9.442	85.206	1.00	49.25
ATOM	3795	CE	LYS	1192	104.645	8.018	84.716	1.00	51.10
ATOM	3796	NZ	LYS	1192	105.763	7.104	85.075	1.00	52.31
ATOM	3797	C	LYS	1192	104.175	12.591	82.891	1.00	38.79
ATOM	3798	O	LYS	1192	104.388	11.611	82.173	1.00	39.33
ATOM	3799	N	ASN	1193	103.466	13.643	82.486	1.00	38.43
ATOM	3800	CA	ASN	1193	102.861	13.716	81.149	1.00	37.37
ATOM	3801	CB	ASN	1193	101.689	14.708	81.162	1.00	34.74
ATOM	3802	CG	ASN	1193	100.825	14.609	79.916	1.00	32.76
ATOM	3803	OD1	ASN	1193	99.598	14.651	79.989	1.00	30.93
ATOM	3804	ND2	ASN	1193	101.466	14.478	78.763	1.00	31.58
ATOM	3805	C	ASN	1193	103.881	14.154	80.104	1.00	37.94
ATOM	3806	O	ASN	1193	104.433	15.246	80.198	1.00	38.47
ATOM	3807	N	ASP	1194	104.121	13.326	79.090	1.00	38.78
ATOM	3808	CA	ASP	1194	105.103	13.676	78.069	1.00	40.33
ATOM	3809	CB	ASP	1194	105.691	12.424	77.435	1.00	44.32
ATOM	3810	CG	ASP	1194	107.097	12.656	76.898	1.00	48.88
ATOM	3811	OD1	ASP	1194	108.047	12.544	77.698	1.00	51.18
ATOM	3812	OD2	ASP	1194	107.247	12.950	75.691	1.00	50.67
ATOM	3813	C	ASP	1194	104.600	14.589	76.967	1.00	38.98
ATOM	3814	O	ASP	1194	105.354	14.925	76.047	1.00	38.10

Table_1

ATOM	3815	N	LYS	1195	103.328	14.971	77.038	1.00	37.92
ATOM	3816	CA	LYS	1195	102.727	15.849	76.036	1.00	36.61
ATOM	3817	CB	LYS	1195	101.282	15.415	75.770	1.00	36.85
ATOM	3818	CG	LYS	1195	101.172	14.320	74.704	1.00	35.86
ATOM	3819	CD	LYS	1195	99.761	14.192	74.173	1.00	38.20
ATOM	3820	CE	LYS	1195	99.590	12.973	73.271	1.00	38.28
ATOM	3821	NZ	LYS	1195	98.203	12.881	72.709	1.00	39.19
ATOM	3822	C	LYS	1195	102.778	17.302	76.526	1.00	35.10
ATOM	3823	O	LYS	1195	102.659	18.243	75.737	1.00	34.82
ATOM	3824	N	ILE	1196	102.985	17.455	77.834	1.00	33.42
ATOM	3825	CA	ILE	1196	103.047	18.764	78.462	1.00	32.79
ATOM	3826	CB	ILE	1196	102.310	18.751	79.822	1.00	32.51
ATOM	3827	CG2	ILE	1196	102.527	20.061	80.554	1.00	33.21
ATOM	3828	CG1	ILE	1196	100.817	18.517	79.581	1.00	32.02
ATOM	3829	CD1	ILE	1196	99.918	18.799	80.798	1.00	32.38
ATOM	3830	C	ILE	1196	104.451	19.305	78.648	1.00	32.41
ATOM	3831	O	ILE	1196	105.308	18.692	79.280	1.00	31.88
ATOM	3832	N	ASP	1197	104.649	20.482	78.072	1.00	33.23
ATOM	3833	CA	ASP	1197	105.902	21.213	78.101	1.00	33.86
ATOM	3834	CB	ASP	1197	106.318	21.541	76.668	1.00	36.79
ATOM	3835	CG	ASP	1197	107.343	22.646	76.597	1.00	40.92
ATOM	3836	OD1	ASP	1197	108.482	22.376	76.163	1.00	43.46
ATOM	3837	OD2	ASP	1197	107.013	23.790	76.971	1.00	43.79
ATOM	3838	C	ASP	1197	105.674	22.500	78.893	1.00	33.43

Table_1

ATOM	3839	O	ASP	1197	104.542	22.974	79.001	1.00	33.73
ATOM	3840	N	PHE	1198	106.748	23.070	79.433	1.00	33.16
ATOM	3841	CA	PHE	1198	106.647	24.293	80.227	1.00	32.00
ATOM	3842	CB	PHE	1198	107.030	24.009	81.681	1.00	30.67
ATOM	3843	CG	PHE	1198	105.986	23.254	82.451	1.00	29.94
ATOM	3844	CD1	PHE	1198	106.081	21.878	82.607	1.00	30.14
ATOM	3845	CD2	PHE	1198	104.921	23.922	83.040	1.00	29.39
ATOM	3846	CE1	PHE	1198	105.131	21.175	83.339	1.00	30.02
ATOM	3847	CE2	PHE	1198	103.964	23.230	83.774	1.00	29.17
ATOM	3848	CZ	PHE	1198	104.070	21.854	83.925	1.00	29.74
ATOM	3849	C	PHE	1198	107.496	25.464	79.730	1.00	31.84
ATOM	3850	O	PHE	1198	108.570	25.280	79.165	1.00	32.01
ATOM	3851	N	ILE	1199	106.995	26.673	79.960	1.00	31.98
ATOM	3852	CA	ILE	1199	107.692	27.901	79.589	1.00	31.54
ATOM	3853	CB	ILE	1199	107.071	28.552	78.339	1.00	30.85
ATOM	3854	CG2	ILE	1199	107.729	29.894	78.068	1.00	31.08
ATOM	3855	CG1	ILE	1199	107.264	27.633	77.132	1.00	30.73
ATOM	3856	CD1	ILE	1199	106.781	28.216	75.816	1.00	29.99
ATOM	3857	C	ILE	1199	107.556	28.842	80.782	1.00	31.82
ATOM	3858	O	ILE	1199	106.528	29.495	80.959	1.00	32.84
ATOM	3859	N	TRP	1200	108.598	28.894	81.604	1.00	31.68
ATOM	3860	CA	TRP	1200	108.594	29.717	82.804	1.00	31.10
ATOM	3861	CB	TRP	1200	109.519	29.093	83.847	1.00	31.71
ATOM	3862	CG	TRP	1200	109.427	27.599	83.925	1.00	30.96

Table_1

ATOM	3863	CD2	TRP	1200	108.482	26.833	84.685	1.00	30.83
ATOM	3864	CE2	TRP	1200	108.787	25.471	84.485	1.00	30.38
ATOM	3865	CE3	TRP	1200	107.417	27.172	85.530	1.00	30.66
ATOM	3866	CD1	TRP	1200	110.229	26.692	83.294	1.00	30.10
ATOM	3867	NE1	TRP	1200	109.852	25.411	83.623	1.00	30.74
ATOM	3868	CZ2	TRP	1200	108.061	24.442	85.088	1.00	30.24
ATOM	3869	CZ3	TRP	1200	106.702	26.148	86.141	1.00	30.42
ATOM	3870	CH2	TRP	1200	107.017	24.799	85.901	1.00	30.47
ATOM	3871	C	TRP	1200	108.980	31.174	82.597	1.00	30.64
ATOM	3872	O	TRP	1200	109.716	31.511	81.673	1.00	30.83
ATOM	3873	N	SER	1201	108.472	32.032	83.476	1.00	30.65
ATOM	3874	CA	SER	1201	108.761	33.461	83.433	1.00	31.63
ATOM	3875	CB	SER	1201	110.202	33.714	83.878	1.00	31.96
ATOM	3876	OG	SER	1201	110.232	34.351	85.142	1.00	34.85
ATOM	3877	C	SER	1201	108.532	34.094	82.068	1.00	31.42
ATOM	3878	O	SER	1201	109.469	34.570	81.431	1.00	32.33
ATOM	3879	N	HIS	1202	107.279	34.103	81.630	1.00	31.13
ATOM	3880	CA	HIS	1202	106.905	34.688	80.348	1.00	30.61
ATOM	3881	CB	HIS	1202	107.104	33.670	79.220	1.00	28.93
ATOM	3882	CG	HIS	1202	108.495	33.640	78.670	1.00	27.12
ATOM	3883	CD2	HIS	1202	109.033	34.222	77.572	1.00	25.86
ATOM	3884	ND1	HIS	1202	109.516	32.928	79.262	1.00	28.03
ATOM	3885	CE1	HIS	1202	110.622	33.074	78.555	1.00	25.88
ATOM	3886	NE2	HIS	1202	110.355	33.855	77.524	1.00	25.70

Table_1

ATOM	3887	C	HIS	1202	105.435	35.088	80.425	1.00	31.58
ATOM	3888	O	HIS	1202	104.674	34.520	81.212	1.00	31.43
ATOM	3889	N	THR	1203	105.040	36.078	79.630	1.00	32.56
ATOM	3890	CA	THR	1203	103.648	36.518	79.616	1.00	33.25
ATOM	3891	CB	THR	1203	103.478	37.950	80.150	1.00	33.93
ATOM	3892	OG1	THR	1203	104.294	38.843	79.387	1.00	35.93
ATOM	3893	CG2	THR	1203	103.874	38.026	81.610	1.00	34.04
ATOM	3894	C	THR	1203	103.141	36.495	78.193	1.00	32.79
ATOM	3895	O	THR	1203	103.918	36.361	77.249	1.00	32.90
ATOM	3896	N	LEU	1204	101.831	36.623	78.042	1.00	33.20
ATOM	3897	CA	LEU	1204	101.237	36.621	76.722	1.00	33.34
ATOM	3898	CB	LEU	1204	99.800	36.106	76.788	1.00	32.96
ATOM	3899	CG	LEU	1204	99.090	35.979	75.439	1.00	33.44
ATOM	3900	CD1	LEU	1204	99.810	34.965	74.566	1.00	31.32
ATOM	3901	CD2	LEU	1204	97.650	35.559	75.663	1.00	33.59
ATOM	3902	C	LEU	1204	101.255	38.037	76.182	1.00	33.54
ATOM	3903	O	LEU	1204	100.622	38.929	76.746	1.00	34.72
ATOM	3904	N	LYS	1205	102.005	38.248	75.107	1.00	33.02
ATOM	3905	CA	LYS	1205	102.077	39.562	74.494	1.00	32.89
ATOM	3906	CB	LYS	1205	103.382	39.736	73.712	1.00	33.47
ATOM	3907	CG	LYS	1205	103.721	41.194	73.416	1.00	33.80
ATOM	3908	CD	LYS	1205	104.202	41.393	71.987	1.00	36.36
ATOM	3909	CE	LYS	1205	105.304	42.439	71.935	1.00	37.73
ATOM	3910	NZ	LYS	1205	105.324	43.221	70.667	1.00	38.93

Table_1

ATOM	3911	C	LYS	1205	100.901	39.643	73.547	1.00	31.88
ATOM	3912	O	LYS	1205	100.087	40.563	73.625	1.00	33.13
ATOM	3913	N	SER	1206	100.806	38.659	72.661	1.00	30.46
ATOM	3914	CA	SER	1206	99.721	38.633	71.703	1.00	29.47
ATOM	3915	CB	SER	1206	100.040	39.566	70.542	1.00	29.45
ATOM	3916	OG	SER	1206	101.027	38.992	69.710	1.00	28.99
ATOM	3917	C	SER	1206	99.413	37.252	71.152	1.00	29.01
ATOM	3918	O	SER	1206	100.223	36.328	71.238	1.00	27.84
ATOM	3919	N	ILE	1207	98.213	37.134	70.595	1.00	28.86
ATOM	3920	CA	ILE	1207	97.741	35.913	69.966	1.00	28.16
ATOM	3921	CB	ILE	1207	96.354	35.510	70.500	1.00	26.76
ATOM	3922	CG2	ILE	1207	95.770	34.394	69.658	1.00	25.19
ATOM	3923	CG1	ILE	1207	96.479	35.034	71.948	1.00	26.42
ATOM	3924	CD1	ILE	1207	95.473	35.650	72.887	1.00	25.79
ATOM	3925	C	ILE	1207	97.650	36.343	68.508	1.00	29.00
ATOM	3926	O	ILE	1207	96.906	37.266	68.176	1.00	29.55
ATOM	3927	N	ASN	1208	98.420	35.689	67.644	1.00	29.76
ATOM	3928	CA	ASN	1208	98.464	36.046	66.230	1.00	31.02
ATOM	3929	CB	ASN	1208	99.917	36.058	65.765	1.00	29.99
ATOM	3930	CG	ASN	1208	100.851	36.582	66.828	1.00	29.89
ATOM	3931	OD1	ASN	1208	100.539	37.556	67.510	1.00	30.49
ATOM	3932	ND2	ASN	1208	102.002	35.937	66.983	1.00	30.32
ATOM	3933	C	ASN	1208	97.644	35.183	65.286	1.00	31.99
ATOM	3934	O	ASN	1208	97.644	33.960	65.381	1.00	32.13

Table_1

ATOM	3935	N	GLU	1209	96.964	35.840	64.354	1.00	33.92
ATOM	3936	CA	GLU	1209	96.133	35.154	63.380	1.00	35.81
ATOM	3937	CB	GLU	1209	94.969	36.043	62.948	1.00	37.04
ATOM	3938	CG	GLU	1209	93.966	35.324	62.065	1.00	40.37
ATOM	3939	CD	GLU	1209	93.526	36.154	60.880	1.00	42.21
ATOM	3940	OE1	GLU	1209	92.777	37.129	61.094	1.00	45.05
ATOM	3941	OE2	GLU	1209	93.922	35.834	59.739	1.00	42.39
ATOM	3942	C	GLU	1209	96.936	34.775	62.154	1.00	36.28
ATOM	3943	O	GLU	1209	97.853	35.487	61.754	1.00	36.29
ATOM	3944	N	LYS	1210	96.583	33.647	61.556	1.00	38.09
ATOM	3945	CA	LYS	1210	97.268	33.186	60.365	1.00	40.09
ATOM	3946	CB	LYS	1210	97.864	31.798	60.599	1.00	42.18
ATOM	3947	CG	LYS	1210	98.466	31.169	59.355	1.00	44.89
ATOM	3948	CD	LYS	1210	99.907	31.594	59.156	1.00	46.47
ATOM	3949	CE	LYS	1210	100.510	30.904	57.944	1.00	47.38
ATOM	3950	NZ	LYS	1210	101.903	31.358	57.689	1.00	48.74
ATOM	3951	C	LYS	1210	96.265	33.143	59.226	1.00	40.57
ATOM	3952	O	LYS	1210	96.176	34.082	58.434	1.00	40.16
ATOM	3953	N	ASP	1211	95.499	32.059	59.156	1.00	40.20
ATOM	3954	CA	ASP	1211	94.505	31.907	58.101	1.00	40.26
ATOM	3955	CB	ASP	1211	94.706	30.570	57.387	1.00	42.70
ATOM	3956	CG	ASP	1211	95.715	30.664	56.261	1.00	44.67
ATOM	3957	OD1	ASP	1211	96.754	29.967	56.327	1.00	44.22
ATOM	3958	OD2	ASP	1211	95.468	31.442	55.312	1.00	45.83

Table_1

ATOM	3959	C	ASP	1211	93.092	31.992	58.654	1.00	39.08
ATOM	3960	O	ASP	1211	92.319	31.040	58.556	1.00	38.96
ATOM	3961	N	GLY	1212	92.762	33.141	59.234	1.00	37.93
ATOM	3962	CA	GLY	1212	91.440	33.334	59.799	1.00	37.13
ATOM	3963	C	GLY	1212	91.322	32.756	61.195	1.00	35.78
ATOM	3964	O	GLY	1212	90.278	32.861	61.835	1.00	35.48
ATOM	3965	N	LYS	1213	92.397	32.144	61.672	1.00	35.47
ATOM	3966	CA	LYS	1213	92.401	31.552	62.998	1.00	34.95
ATOM	3967	CB	LYS	1213	92.088	30.054	62.908	1.00	37.80
ATOM	3968	CG	LYS	1213	93.194	29.222	62.275	1.00	42.84
ATOM	3969	CD	LYS	1213	92.773	27.770	62.103	1.00	47.36
ATOM	3970	CE	LYS	1213	93.884	26.946	61.462	1.00	50.91
ATOM	3971	NZ	LYS	1213	93.484	25.515	61.277	1.00	53.73
ATOM	3972	C	LYS	1213	93.762	31.763	63.644	1.00	33.21
ATOM	3973	O	LYS	1213	94.664	32.332	63.031	1.00	32.46
ATOM	3974	N	VAL	1214	93.899	31.312	64.886	1.00	31.84
ATOM	3975	CA	VAL	1214	95.154	31.443	65.612	1.00	31.61
ATOM	3976	CB	VAL	1214	95.082	30.730	66.979	1.00	30.89
ATOM	3977	CG1	VAL	1214	96.474	30.588	67.569	1.00	30.19
ATOM	3978	CG2	VAL	1214	94.178	31.504	67.921	1.00	29.68
ATOM	3979	C	VAL	1214	96.279	30.818	64.796	1.00	32.17
ATOM	3980	O	VAL	1214	96.105	29.758	64.200	1.00	32.67
ATOM	3981	N	GLY	1215	97.432	31.476	64.774	1.00	32.98
ATOM	3982	CA	GLY	1215	98.559	30.956	64.024	1.00	32.38

Table_1

ATOM	3983	C	GLY	1215	99.811	30.862	64.870	1.00	32.79
ATOM	3984	O	GLY	1215	100.755	30.156	64.519	1.00	34.35
ATOM	3985	N	SER	1216	99.820	31.578	65.988	1.00	31.52
ATOM	3986	CA	SER	1216	100.962	31.576	66.891	1.00	30.97
ATOM	3987	CB	SER	1216	102.227	32.047	66.161	1.00	31.13
ATOM	3988	OG	SER	1216	101.990	33.229	65.413	1.00	30.70
ATOM	3989	C	SER	1216	100.686	32.497	68.065	1.00	30.09
ATOM	3990	O	SER	1216	99.611	33.083	68.171	1.00	29.60
ATOM	3991	N	VAL	1217	101.658	32.610	68.958	1.00	29.98
ATOM	3992	CA	VAL	1217	101.526	33.485	70.109	1.00	29.68
ATOM	3993	CB	VAL	1217	101.194	32.718	71.400	1.00	28.63
ATOM	3994	CG1	VAL	1217	99.854	32.031	71.274	1.00	27.41
ATOM	3995	CG2	VAL	1217	102.293	31.723	71.704	1.00	27.34
ATOM	3996	C	VAL	1217	102.859	34.163	70.315	1.00	30.14
ATOM	3997	O	VAL	1217	103.907	33.567	70.067	1.00	30.49
ATOM	3998	N	THR	1218	102.819	35.415	70.749	1.00	30.50
ATOM	3999	CA	THR	1218	104.042	36.144	71.016	1.00	31.06
ATOM	4000	CB	THR	1218	104.044	37.517	70.346	1.00	31.28
ATOM	4001	OG1	THR	1218	104.081	37.349	68.924	1.00	32.13
ATOM	4002	CG2	THR	1218	105.266	38.309	70.784	1.00	32.15
ATOM	4003	C	THR	1218	104.141	36.317	72.522	1.00	31.09
ATOM	4004	O	THR	1218	103.255	36.889	73.154	1.00	30.98
ATOM	4005	N	LEU	1219	105.218	35.801	73.094	1.00	31.53
ATOM	4006	CA	LEU	1219	105.437	35.886	74.521	1.00	31.84

Table_1

ATOM	4007	CB	LEU	1219	105.676	34.495	75.093	1.00	32.13
ATOM	4008	CG	LEU	1219	104.583	33.474	74.784	1.00	32.17
ATOM	4009	CD1	LEU	1219	105.145	32.082	74.940	1.00	32.21
ATOM	4010	CD2	LEU	1219	103.400	33.683	75.716	1.00	32.92
ATOM	4011	C	LEU	1219	106.630	36.772	74.842	1.00	32.40
ATOM	4012	O	LEU	1219	107.606	36.815	74.099	1.00	32.30
ATOM	4013	N	THR	1220	106.536	37.478	75.962	1.00	32.87
ATOM	4014	CA	THR	1220	107.606	38.349	76.399	1.00	32.64
ATOM	4015	CB	THR	1220	107.111	39.811	76.487	1.00	33.44
ATOM	4016	OG1	THR	1220	108.096	40.610	77.148	1.00	35.26
ATOM	4017	CG2	THR	1220	105.790	39.904	77.230	1.00	33.54
ATOM	4018	C	THR	1220	108.104	37.854	77.760	1.00	32.85
ATOM	4019	O	THR	1220	107.325	37.635	78.681	1.00	33.55
ATOM	4020	N	SER	1221	109.411	37.686	77.876	1.00	33.54
ATOM	4021	CA	SER	1221	109.976	37.192	79.117	1.00	33.76
ATOM	4022	CB	SER	1221	111.407	36.747	78.863	1.00	33.79
ATOM	4023	OG	SER	1221	112.121	36.707	80.074	1.00	34.17
ATOM	4024	C	SER	1221	109.906	38.162	80.294	1.00	34.20
ATOM	4025	O	SER	1221	109.909	39.381	80.116	1.00	35.28
ATOM	4026	N	THR	1222	109.844	37.636	81.508	1.00	35.93
ATOM	4027	CA	THR	1222	109.761	38.512	82.670	1.00	37.19
ATOM	4028	CB	THR	1222	108.864	37.908	83.758	1.00	36.57
ATOM	4029	OG1	THR	1222	109.532	36.809	84.397	1.00	37.73
ATOM	4030	CG2	THR	1222	107.578	37.428	83.127	1.00	35.90

Table_1

ATOM	4031	C	THR	1222	111.118	38.804	83.268	1.00	38.32
ATOM	4032	O	THR	1222	111.231	39.534	84.250	1.00	37.12
ATOM	4033	N	LYS	1223	112.139	38.229	82.651	1.00	39.85
ATOM	4034	CA	LYS	1223	113.487	38.420	83.138	1.00	41.70
ATOM	4035	CB	LYS	1223	114.192	37.064	83.244	1.00	41.33
ATOM	4036	CG	LYS	1223	113.852	36.298	84.521	1.00	41.20
ATOM	4037	CD	LYS	1223	114.664	35.019	84.624	1.00	41.22
ATOM	4038	CE	LYS	1223	114.207	34.126	85.778	1.00	41.38
ATOM	4039	NZ	LYS	1223	114.976	32.843	85.928	1.00	42.12
ATOM	4040	C	LYS	1223	114.289	39.366	82.251	1.00	42.80
ATOM	4041	O	LYS	1223	115.132	40.126	82.740	1.00	43.50
ATOM	4042	N	ASP	1224	114.015	39.357	80.948	1.00	43.86
ATOM	4043	CA	ASP	1224	114.764	40.215	80.033	1.00	44.25
ATOM	4044	CB	ASP	1224	115.874	39.401	79.363	1.00	45.40
ATOM	4045	CG	ASP	1224	115.332	38.275	78.500	1.00	46.69
ATOM	4046	OD1	ASP	1224	116.142	37.483	77.973	1.00	48.46
ATOM	4047	OD2	ASP	1224	114.093	38.181	78.343	1.00	47.54
ATOM	4048	C	ASP	1224	113.942	40.920	78.953	1.00	44.34
ATOM	4049	O	ASP	1224	114.509	41.556	78.063	1.00	45.83
ATOM	4050	N	GLY	1225	112.619	40.802	79.023	1.00	42.87
ATOM	4051	CA	GLY	1225	111.781	41.446	78.029	1.00	41.15
ATOM	4052	C	GLY	1225	111.961	40.866	76.633	1.00	40.63
ATOM	4053	O	GLY	1225	111.494	41.442	75.656	1.00	40.15
ATOM	4054	N	SER	1226	112.648	39.730	76.540	1.00	39.77

Table_1

ATOM	4055	CA	SER	1226	112.873	39.065	75.267	1.00	39.44
ATOM	4056	CB	SER	1226	113.914	37.960	75.423	1.00	38.85
ATOM	4057	OG	SER	1226	115.115	38.476	75.971	1.00	42.39
ATOM	4058	C	SER	1226	111.574	38.455	74.771	1.00	38.86
ATOM	4059	O	SER	1226	110.792	37.921	75.556	1.00	38.44
ATOM	4060	N	GLU	1227	111.358	38.532	73.461	1.00	38.76
ATOM	4061	CA	GLU	1227	110.156	37.975	72.854	1.00	38.84
ATOM	4062	CB	GLU	1227	109.409	39.019	72.021	1.00	38.15
ATOM	4063	CG	GLU	1227	108.979	40.283	72.733	1.00	38.59
ATOM	4064	CD	GLU	1227	108.450	41.317	71.767	1.00	39.26
ATOM	4065	OE1	GLU	1227	108.462	41.043	70.549	1.00	39.83
ATOM	4066	OE2	GLU	1227	108.026	42.398	72.222	1.00	40.07
ATOM	4067	C	GLU	1227	110.484	36.841	71.916	1.00	38.81
ATOM	4068	O	GLU	1227	111.541	36.807	71.270	1.00	39.18
ATOM	4069	N	GLU	1228	109.564	35.896	71.852	1.00	38.59
ATOM	4070	CA	GLU	1228	109.675	34.795	70.930	1.00	38.77
ATOM	4071	CB	GLU	1228	110.483	33.597	71.445	1.00	40.35
ATOM	4072	CG	GLU	1228	110.803	32.699	70.258	1.00	43.65
ATOM	4073	CD	GLU	1228	111.697	31.503	70.545	1.00	45.38
ATOM	4074	OE1	GLU	1228	112.243	31.325	71.659	1.00	45.99
ATOM	4075	OE2	GLU	1228	111.851	30.714	69.598	1.00	47.77
ATOM	4076	C	GLU	1228	108.277	34.343	70.590	1.00	38.37
ATOM	4077	O	GLU	1228	107.445	34.092	71.468	1.00	38.37
ATOM	4078	N	THR	1229	108.019	34.261	69.295	1.00	37.78

Table_1

ATOM	4079	CA	THR	1229	106.722	33.864	68.792	1.00	36.99
ATOM	4080	CB	THR	1229	106.359	34.728	67.586	1.00	36.02
ATOM	4081	OG1	THR	1229	106.663	36.099	67.879	1.00	35.46
ATOM	4082	CG2	THR	1229	104.900	34.605	67.265	1.00	36.57
ATOM	4083	C	THR	1229	106.759	32.400	68.384	1.00	37.06
ATOM	4084	O	THR	1229	107.573	31.998	67.552	1.00	37.17
ATOM	4085	N	HIS	1230	105.886	31.606	68.991	1.00	35.53
ATOM	4086	CA	HIS	1230	105.811	30.187	68.688	1.00	34.21
ATOM	4087	CB	HIS	1230	105.839	29.349	69.959	1.00	34.48
ATOM	4088	CG	HIS	1230	106.780	29.850	71.002	1.00	34.74
ATOM	4089	CD2	HIS	1230	106.831	31.032	71.669	1.00	35.13
ATOM	4090	ND1	HIS	1230	107.813	29.089	71.495	1.00	34.77
ATOM	4091	CE1	HIS	1230	108.462	29.773	72.423	1.00	34.61
ATOM	4092	NE2	HIS	1230	107.883	30.954	72.543	1.00	35.00
ATOM	4093	C	HIS	1230	104.521	29.881	67.964	1.00	33.81
ATOM	4094	O	HIS	1230	103.501	30.534	68.179	1.00	33.76
ATOM	4095	N	GLU	1231	104.565	28.867	67.115	1.00	32.54
ATOM	4096	CA	GLU	1231	103.382	28.470	66.386	1.00	31.26
ATOM	4097	CB	GLU	1231	103.761	27.533	65.247	1.00	32.87
ATOM	4098	CG	GLU	1231	104.627	28.216	64.215	1.00	37.78
ATOM	4099	CD	GLU	1231	105.008	27.316	63.064	1.00	42.27
ATOM	4100	OE1	GLU	1231	105.972	27.658	62.349	1.00	44.32
ATOM	4101	OE2	GLU	1231	104.350	26.271	62.868	1.00	46.10
ATOM	4102	C	GLU	1231	102.423	27.784	67.340	1.00	29.99

Table_1

ATOM	4103	O	GLU	1231	102.841	27.056	68.242	1.00	28.28
ATOM	4104	N	ALA	1232	101.134	28.034	67.141	1.00	29.42
ATOM	4105	CA	ALA	1232	100.094	27.454	67.977	1.00	28.29
ATOM	4106	CB	ALA	1232	99.863	28.324	69.200	1.00	26.97
ATOM	4107	C	ALA	1232	98.812	27.346	67.173	1.00	27.41
ATOM	4108	O	ALA	1232	98.563	28.149	66.276	1.00	26.21
ATOM	4109	N	ASP	1233	98.005	26.343	67.490	1.00	27.32
ATOM	4110	CA	ASP	1233	96.742	26.152	66.800	1.00	27.19
ATOM	4111	CB	ASP	1233	96.505	24.669	66.518	1.00	27.38
ATOM	4112	CG	ASP	1233	97.440	24.123	65.459	1.00	27.40
ATOM	4113	OD1	ASP	1233	98.215	23.195	65.773	1.00	28.94
ATOM	4114	OD2	ASP	1233	97.399	24.620	64.314	1.00	27.54
ATOM	4115	C	ASP	1233	95.649	26.688	67.705	1.00	26.84
ATOM	4116	O	ASP	1233	94.499	26.833	67.297	1.00	27.40
ATOM	4117	N	GLY	1234	96.022	26.988	68.943	1.00	26.60
ATOM	4118	CA	GLY	1234	95.052	27.503	69.887	1.00	24.70
ATOM	4119	C	GLY	1234	95.663	27.884	71.215	1.00	23.80
ATOM	4120	O	GLY	1234	96.800	27.525	71.515	1.00	23.32
ATOM	4121	N	VAL	1235	94.896	28.612	72.017	1.00	23.63
ATOM	4122	CA	VAL	1235	95.352	29.057	73.326	1.00	23.71
ATOM	4123	CB	VAL	1235	95.811	30.533	73.297	1.00	24.49
ATOM	4124	CG1	VAL	1235	96.632	30.849	74.536	1.00	23.63
ATOM	4125	CG2	VAL	1235	96.610	30.811	72.045	1.00	24.87
ATOM	4126	C	VAL	1235	94.226	28.960	74.338	1.00	22.93

Table_1

ATOM	4127	O	VAL	1235	93.134	29.467	74.106	1.00	23.70
ATOM	4128	N	PHE	1236	94.487	28.304	75.460	1.00	22.87
ATOM	4129	CA	PHE	1236	93.482	28.197	76.503	1.00	22.96
ATOM	4130	CB	PHE	1236	93.326	26.747	76.964	1.00	23.63
ATOM	4131	CG	PHE	1236	92.386	25.945	76.105	1.00	24.31
ATOM	4132	CD1	PHE	1236	92.737	25.611	74.804	1.00	22.94
ATOM	4133	CD2	PHE	1236	91.141	25.546	76.585	1.00	24.68
ATOM	4134	CE1	PHE	1236	91.865	24.891	73.989	1.00	24.21
ATOM	4135	CE2	PHE	1236	90.259	24.823	75.773	1.00	24.71
ATOM	4136	CZ	PHE	1236	90.623	24.497	74.475	1.00	23.15
ATOM	4137	C	PHE	1236	93.938	29.092	77.642	1.00	23.60
ATOM	4138	O	PHE	1236	94.989	28.878	78.243	1.00	23.70
ATOM	4139	N	ILE	1237	93.144	30.118	77.916	1.00	24.13
ATOM	4140	CA	ILE	1237	93.463	31.079	78.958	1.00	24.71
ATOM	4141	CB	ILE	1237	93.121	32.507	78.492	1.00	24.34
ATOM	4142	CG2	ILE	1237	93.504	33.505	79.557	1.00	25.23
ATOM	4143	CG1	ILE	1237	93.850	32.811	77.185	1.00	23.22
ATOM	4144	CD1	ILE	1237	93.205	33.898	76.366	1.00	24.03
ATOM	4145	C	ILE	1237	92.716	30.792	80.246	1.00	25.07
ATOM	4146	O	ILE	1237	91.520	30.497	80.230	1.00	26.25
ATOM	4147	N	TYR	1238	93.425	30.884	81.364	1.00	25.20
ATOM	4148	CA	TYR	1238	92.816	30.634	82.656	1.00	26.49
ATOM	4149	CB	TYR	1238	93.334	29.310	83.219	1.00	27.05
ATOM	4150	CG	TYR	1238	92.910	28.143	82.364	1.00	27.46

Table_1

ATOM	4151	CD1	TYR	1238	93.768	27.612	81.405	1.00	26.60
ATOM	4152	CE1	TYR	1238	93.352	26.589	80.563	1.00	28.76
ATOM	4153	CD2	TYR	1238	91.625	27.613	82.468	1.00	27.85
ATOM	4154	CE2	TYR	1238	91.200	26.590	81.630	1.00	29.57
ATOM	4155	CZ	TYR	1238	92.067	26.082	80.679	1.00	28.81
ATOM	4156	OH	TYR	1238	91.644	25.084	79.833	1.00	30.74
ATOM	4157	C	TYR	1238	93.071	31.784	83.620	1.00	27.01
ATOM	4158	O	TYR	1238	94.074	31.813	84.332	1.00	28.75
ATOM	4159	N	ILE	1239	92.142	32.736	83.623	1.00	26.44
ATOM	4160	CA	ILE	1239	92.224	33.915	84.473	1.00	25.92
ATOM	4161	CB	ILE	1239	91.989	35.202	83.648	1.00	26.94
ATOM	4162	CG2	ILE	1239	91.965	36.412	84.561	1.00	25.60
ATOM	4163	CG1	ILE	1239	93.084	35.358	82.591	1.00	27.75
ATOM	4164	CD1	ILE	1239	94.432	35.752	83.160	1.00	27.95
ATOM	4165	C	ILE	1239	91.186	33.863	85.594	1.00	25.82
ATOM	4166	O	ILE	1239	91.457	34.269	86.723	1.00	26.11
ATOM	4167	N	GLY	1240	89.995	33.369	85.273	1.00	25.25
ATOM	4168	CA	GLY	1240	88.940	33.282	86.265	1.00	24.10
ATOM	4169	C	GLY	1240	87.572	33.520	85.661	1.00	23.79
ATOM	4170	O	GLY	1240	87.447	33.751	84.459	1.00	24.27
ATOM	4171	N	MET	1241	86.545	33.467	86.501	1.00	23.20
ATOM	4172	CA	MET	1241	85.171	33.668	86.062	1.00	23.42
ATOM	4173	CB	MET	1241	84.418	32.338	86.094	1.00	22.34
ATOM	4174	CG	MET	1241	82.938	32.419	85.787	1.00	19.70

Table_1

ATOM	4175	SD	MET	1241	82.258	30.763	85.575	1.00	13.92
ATOM	4176	CE	MET	1241	81.834	30.819	83.877	1.00	16.94
ATOM	4177	C	MET	1241	84.512	34.664	86.998	1.00	24.25
ATOM	4178	O	MET	1241	84.792	34.676	88.196	1.00	24.76
ATOM	4179	N	LYS	1242	83.635	35.496	86.453	1.00	24.52
ATOM	4180	CA	LYS	1242	82.951	36.499	87.249	1.00	24.73
ATOM	4181	CB	LYS	1242	83.278	37.895	86.706	1.00	26.43
ATOM	4182	CG	LYS	1242	82.335	39.001	87.166	1.00	28.81
ATOM	4183	CD	LYS	1242	82.858	40.376	86.783	1.00	30.53
ATOM	4184	CE	LYS	1242	81.939	41.053	85.792	1.00	32.68
ATOM	4185	NZ	LYS	1242	82.202	40.531	84.432	1.00	35.79
ATOM	4186	C	LYS	1242	81.447	36.269	87.228	1.00	24.46
ATOM	4187	O	LYS	1242	80.796	36.449	86.198	1.00	24.07
ATOM	4188	N	PRO	1243	80.874	35.836	88.356	1.00	24.09
ATOM	4189	CD	PRO	1243	81.475	35.520	89.666	1.00	21.68
ATOM	4190	CA	PRO	1243	79.427	35.621	88.352	1.00	24.07
ATOM	4191	CB	PRO	1243	79.149	34.990	89.714	1.00	21.98
ATOM	4192	CG	PRO	1243	80.285	35.435	90.567	1.00	20.33
ATOM	4193	C	PRO	1243	78.770	36.991	88.200	1.00	24.51
ATOM	4194	O	PRO	1243	79.168	37.945	88.871	1.00	24.40
ATOM	4195	N	LEU	1244	77.786	37.101	87.316	1.00	24.08
ATOM	4196	CA	LEU	1244	77.116	38.379	87.109	1.00	23.73
ATOM	4197	CB	LEU	1244	76.523	38.428	85.703	1.00	22.92
ATOM	4198	CG	LEU	1244	77.643	38.273	84.669	1.00	23.09

Table_1

ATOM	4199	CD1	LEU	1244	77.090	38.391	83.264	1.00	23.57
ATOM	4200	CD2	LEU	1244	78.706	39.333	84.924	1.00	21.12
ATOM	4201	C	LEU	1244	76.047	38.603	88.163	1.00	22.74
ATOM	4202	O	LEU	1244	74.853	38.551	87.877	1.00	23.27
ATOM	4203	N	THR	1245	76.503	38.878	89.383	1.00	22.96
ATOM	4204	CA	THR	1245	75.624	39.081	90.527	1.00	23.17
ATOM	4205	CB	THR	1245	75.913	38.030	91.608	1.00	23.33
ATOM	4206	OG1	THR	1245	77.295	38.099	91.975	1.00	25.37
ATOM	4207	CG2	THR	1245	75.620	36.636	91.091	1.00	23.18
ATOM	4208	C	THR	1245	75.681	40.459	91.202	1.00	23.17
ATOM	4209	O	THR	1245	75.029	40.668	92.225	1.00	24.37
ATOM	4210	N	ALA	1246	76.446	41.393	90.655	1.00	22.92
ATOM	4211	CA	ALA	1246	76.538	42.720	91.257	1.00	23.14
ATOM	4212	CB	ALA	1246	77.265	43.668	90.317	1.00	23.51
ATOM	4213	C	ALA	1246	75.170	43.297	91.636	1.00	23.73
ATOM	4214	O	ALA	1246	74.993	43.826	92.736	1.00	24.51
ATOM	4215	N	PRO	1247	74.181	43.209	90.730	1.00	24.08
ATOM	4216	CD	PRO	1247	74.290	42.643	89.377	1.00	23.81
ATOM	4217	CA	PRO	1247	72.839	43.735	91.010	1.00	23.92
ATOM	4218	CB	PRO	1247	72.061	43.509	89.719	1.00	23.01
ATOM	4219	CG	PRO	1247	73.030	43.059	88.718	1.00	24.74
ATOM	4220	C	PRO	1247	72.103	43.099	92.180	1.00	24.31
ATOM	4221	O	PRO	1247	71.141	43.668	92.693	1.00	23.67
ATOM	4222	N	PHE	1248	72.539	41.915	92.585	1.00	25.89

Table_1

ATOM	4223	CA	PHE	1248	71.904	41.199	93.690	1.00	27.89
ATOM	4224	CB	PHE	1248	71.425	39.837	93.195	1.00	26.20
ATOM	4225	CG	PHE	1248	70.925	39.851	91.784	1.00	26.41
ATOM	4226	CD1	PHE	1248	69.693	40.424	91.487	1.00	25.85
ATOM	4227	CD2	PHE	1248	71.719	39.386	90.738	1.00	25.97
ATOM	4228	CE1	PHE	1248	69.235	40.497	90.176	1.00	26.23
ATOM	4229	CE2	PHE	1248	71.273	39.452	89.420	1.00	26.50
ATOM	4230	CZ	PHE	1248	70.037	40.031	89.134	1.00	26.69
ATOM	4231	C	PHE	1248	72.923	41.026	94.805	1.00	30.29
ATOM	4232	O	PHE	1248	72.778	40.169	95.680	1.00	30.37
ATOM	4233	N	LYS	1249	73.942	41.874	94.782	1.00	32.89
ATOM	4234	CA	LYS	1249	75.025	41.806	95.746	1.00	34.92
ATOM	4235	CB	LYS	1249	76.241	42.548	95.168	1.00	35.57
ATOM	4236	CG	LYS	1249	76.420	43.939	95.689	1.00	38.14
ATOM	4237	CD	LYS	1249	77.805	44.426	95.343	1.00	40.59
ATOM	4238	CE	LYS	1249	77.731	45.691	94.513	1.00	42.02
ATOM	4239	NZ	LYS	1249	78.556	45.557	93.277	1.00	44.10
ATOM	4240	C	LYS	1249	74.796	42.228	97.192	1.00	36.43
ATOM	4241	O	LYS	1249	75.748	42.242	97.967	1.00	38.33
ATOM	4242	N	ASP	1250	73.567	42.565	97.571	1.00	37.67
ATOM	4243	CA	ASP	1250	73.308	42.960	98.954	1.00	38.82
ATOM	4244	CB	ASP	1250	73.251	44.496	99.103	1.00	42.99
ATOM	4245	CG	ASP	1250	71.955	45.139	98.575	1.00	47.55
ATOM	4246	OD1	ASP	1250	71.085	44.461	98.001	1.00	49.44

Table_1

ATOM	4247	OD2	ASP	1250	71.821	46.364	98.758	1.00 50.01
ATOM	4248	C	ASP	1250	72.039	42.281	99.466	1.00 37.31
ATOM	4249	O	ASP	1250	71.376	42.747	100.397	1.00 37.53
ATOM	4250	N	LEU	1251	71.735	41.145	98.847	1.00 35.46
ATOM	4251	CA	LEU	1251	70.565	40.340	99.159	1.00 32.87
ATOM	4252	CB	LEU	1251	70.058	39.694	97.865	1.00 31.53
ATOM	4253	CG	LEU	1251	69.149	40.565	96.985	1.00 30.14
ATOM	4254	CD1	LEU	1251	68.433	39.686	95.999	1.00 29.16
ATOM	4255	CD2	LEU	1251	68.147	41.342	97.835	1.00 29.85
ATOM	4256	C	LEU	1251	70.988	39.279	100.178	1.00 32.64
ATOM	4257	O	LEU	1251	70.167	38.677	100.852	1.00 32.33
ATOM	4258	N	GLY	1252	72.306	39.086	100.244	1.00 32.44
ATOM	4259	CA	GLY	1252	72.926	38.135	101.148	1.00 32.73
ATOM	4260	C	GLY	1252	72.780	36.705	100.678	1.00 32.47
ATOM	4261	O	GLY	1252	72.705	35.797	101.500	1.00 32.07
ATOM	4262	N	ILE	1253	72.762	36.511	99.362	1.00 31.64
ATOM	4263	CA	ILE	1253	72.597	35.187	98.774	1.00 32.05
ATOM	4264	CB	ILE	1253	71.374	35.156	97.800	1.00 31.42
ATOM	4265	CG2	ILE	1253	70.085	35.469	98.563	1.00 29.91
ATOM	4266	CG1	ILE	1253	71.561	36.179	96.677	1.00 30.49
ATOM	4267	CD1	ILE	1253	70.388	36.257	95.705	1.00 28.80
ATOM	4268	C	ILE	1253	73.839	34.801	97.979	1.00 32.33
ATOM	4269	O	ILE	1253	73.813	33.836	97.216	1.00 32.40
ATOM	4270	N	THR	1254	74.923	35.546	98.170	1.00 32.51

Table_1

ATOM	4271	CA	THR	1254	76.153	35.294	97.433	1.00	32.56
ATOM	4272	CB	THR	1254	76.544	36.540	96.639	1.00	31.18
ATOM	4273	OG1	THR	1254	76.621	37.665	97.528	1.00	31.40
ATOM	4274	CG2	THR	1254	75.523	36.822	95.570	1.00	31.36
ATOM	4275	C	THR	1254	77.376	34.878	98.237	1.00	34.35
ATOM	4276	O	THR	1254	77.430	35.062	99.451	1.00	35.48
ATOM	4277	N	ASN	1255	78.357	34.324	97.520	1.00	35.67
ATOM	4278	CA	ASN	1255	79.642	33.869	98.070	1.00	36.32
ATOM	4279	CB	ASN	1255	80.404	33.000	97.060	1.00	37.54
ATOM	4280	CG	ASN	1255	80.030	31.548	97.099	1.00	38.76
ATOM	4281	OD1	ASN	1255	79.571	31.037	98.112	1.00	41.64
ATOM	4282	ND2	ASN	1255	80.263	30.858	95.982	1.00	39.34
ATOM	4283	C	ASN	1255	80.552	35.072	98.288	1.00	36.26
ATOM	4284	O	ASN	1255	80.197	36.217	97.972	1.00	37.34
ATOM	4285	N	ASP	1256	81.747	34.807	98.805	1.00	35.45
ATOM	4286	CA	ASP	1256	82.742	35.846	98.988	1.00	35.43
ATOM	4287	CB	ASP	1256	83.958	35.305	99.744	1.00	37.03
ATOM	4288	CG	ASP	1256	83.721	35.203	101.251	1.00	38.40
ATOM	4289	OD1	ASP	1256	82.873	35.952	101.772	1.00	39.95
ATOM	4290	OD2	ASP	1256	84.388	34.375	101.916	1.00	40.22
ATOM	4291	C	ASP	1256	83.121	36.126	97.543	1.00	34.85
ATOM	4292	O	ASP	1256	83.426	37.257	97.184	1.00	35.35
ATOM	4293	N	VAL	1257	83.073	35.075	96.721	1.00	33.40
ATOM	4294	CA	VAL	1257	83.422	35.163	95.305	1.00	32.22

Table_1

ATOM	4295	CB	VAL	1257	83.822	33.777	94.746	1.00	33.30
ATOM	4296	CG1	VAL	1257	84.043	33.854	93.245	1.00	34.95
ATOM	4297	CG2	VAL	1257	85.090	33.290	95.422	1.00	34.16
ATOM	4298	C	VAL	1257	82.313	35.761	94.433	1.00	31.06
ATOM	4299	O	VAL	1257	82.595	36.314	93.372	1.00	30.66
ATOM	4300	N	GLY	1258	81.058	35.642	94.861	1.00	29.46
ATOM	4301	CA	GLY	1258	79.978	36.227	94.081	1.00	27.47
ATOM	4302	C	GLY	1258	78.960	35.310	93.433	1.00	27.06
ATOM	4303	O	GLY	1258	78.041	35.782	92.761	1.00	28.30
ATOM	4304	N	TYR	1259	79.110	34.005	93.609	1.00	24.81
ATOM	4305	CA	TYR	1259	78.163	33.072	93.019	1.00	23.25
ATOM	4306	CB	TYR	1259	78.797	31.690	92.881	1.00	21.57
ATOM	4307	CG	TYR	1259	79.871	31.627	91.821	1.00	21.28
ATOM	4308	CD1	TYR	1259	81.220	31.677	92.166	1.00	21.07
ATOM	4309	CE1	TYR	1259	82.216	31.627	91.193	1.00	20.80
ATOM	4310	CD2	TYR	1259	79.542	31.525	90.469	1.00	21.29
ATOM	4311	CE2	TYR	1259	80.532	31.474	89.487	1.00	21.24
ATOM	4312	CZ	TYR	1259	81.864	31.525	89.858	1.00	21.27
ATOM	4313	OH	TYR	1259	82.843	31.461	88.895	1.00	25.07
ATOM	4314	C	TYR	1259	76.978	33.015	93.957	1.00	23.32
ATOM	4315	O	TYR	1259	77.128	33.256	95.151	1.00	23.77
ATOM	4316	N	ILE	1260	75.799	32.711	93.429	1.00	23.73
ATOM	4317	CA	ILE	1260	74.613	32.639	94.269	1.00	23.79
ATOM	4318	CB	ILE	1260	73.327	32.948	93.475	1.00	23.98

Table_1

ATOM	4319	CG2	ILE	1260	72.101	32.675	94.336	1.00	23.23
ATOM	4320	CG1	ILE	1260	73.326	34.416	93.038	1.00	23.30
ATOM	4321	CD1	ILE	1260	72.277	34.748	92.002	1.00	22.30
ATOM	4322	C	ILE	1260	74.493	31.258	94.882	1.00	24.45
ATOM	4323	O	ILE	1260	74.537	30.245	94.184	1.00	24.32
ATOM	4324	N	VAL	1261	74.353	31.226	96.199	1.00	24.86
ATOM	4325	CA	VAL	1261	74.224	29.973	96.917	1.00	25.04
ATOM	4326	CB	VAL	1261	74.709	30.110	98.366	1.00	24.51
ATOM	4327	CG1	VAL	1261	74.493	28.810	99.110	1.00	22.83
ATOM	4328	CG2	VAL	1261	76.180	30.500	98.379	1.00	23.11
ATOM	4329	C	VAL	1261	72.766	29.570	96.922	1.00	25.85
ATOM	4330	O	VAL	1261	71.899	30.337	97.335	1.00	26.70
ATOM	4331	N	THR	1262	72.502	28.360	96.451	1.00	26.76
ATOM	4332	CA	THR	1262	71.146	27.841	96.390	1.00	27.90
ATOM	4333	CB	THR	1262	70.644	27.743	94.948	1.00	27.23
ATOM	4334	OG1	THR	1262	71.262	26.611	94.324	1.00	25.27
ATOM	4335	CG2	THR	1262	70.983	28.994	94.167	1.00	26.35
ATOM	4336	C	THR	1262	71.113	26.429	96.937	1.00	28.58
ATOM	4337	O	THR	1262	72.128	25.740	96.955	1.00	28.91
ATOM	4338	N	LYS	1263	69.939	26.003	97.383	1.00	29.48
ATOM	4339	CA	LYS	1263	69.768	24.646	97.875	1.00	30.35
ATOM	4340	CB	LYS	1263	68.466	24.530	98.665	1.00	31.80
ATOM	4341	CG	LYS	1263	68.352	25.496	99.833	1.00	34.79
ATOM	4342	CD	LYS	1263	69.224	25.047	100.989	1.00	36.19

Table_1

ATOM	4343	CE	LYS	1263	69.146	26.011	102.152	1.00	39.16
ATOM	4344	NZ	LYS	1263	70.027	25.559	103.261	1.00	42.18
ATOM	4345	C	LYS	1263	69.662	23.842	96.587	1.00	30.68
ATOM	4346	O	LYS	1263	69.782	24.409	95.503	1.00	31.11
ATOM	4347	N	ASP	1264	69.452	22.535	96.682	1.00	31.34
ATOM	4348	CA	ASP	1264	69.301	21.729	95.474	1.00	32.01
ATOM	4349	CB	ASP	1264	69.463	20.242	95.783	1.00	35.31
ATOM	4350	CG	ASP	1264	68.950	19.876	97.154	1.00	38.60
ATOM	4351	OD1	ASP	1264	69.317	20.559	98.129	1.00	41.29
ATOM	4352	OD2	ASP	1264	68.179	18.903	97.257	1.00	40.56
ATOM	4353	C	ASP	1264	67.887	22.005	94.988	1.00	30.63
ATOM	4354	O	ASP	1264	67.433	21.476	93.978	1.00	28.80
ATOM	4355	N	ASP	1265	67.208	22.855	95.746	1.00	30.76
ATOM	4356	CA	ASP	1265	65.841	23.284	95.494	1.00	30.72
ATOM	4357	CB	ASP	1265	65.224	23.731	96.818	1.00	32.83
ATOM	4358	CG	ASP	1265	63.745	23.492	96.884	1.00	36.97
ATOM	4359	OD1	ASP	1265	63.095	23.463	95.816	1.00	42.04
ATOM	4360	OD2	ASP	1265	63.232	23.335	98.011	1.00	38.91
ATOM	4361	C	ASP	1265	65.859	24.471	94.535	1.00	29.53
ATOM	4362	O	ASP	1265	64.842	24.809	93.925	1.00	29.46
ATOM	4363	N	MET	1266	67.032	25.091	94.425	1.00	26.49
ATOM	4364	CA	MET	1266	67.256	26.271	93.597	1.00	23.96
ATOM	4365	CB	MET	1266	66.461	26.198	92.289	1.00	20.41
ATOM	4366	CG	MET	1266	67.136	25.418	91.151	1.00	14.67

Table_1

ATOM	4367	SD	MET	1266	68.937	25.492	91.028	1.00	6.47
ATOM	4368	CE	MET	1266	69.335	23.789	91.224	1.00	9.94
ATOM	4369	C	MET	1266	66.822	27.500	94.400	1.00	24.50
ATOM	4370	O	MET	1266	66.885	28.626	93.911	1.00	24.35
ATOM	4371	N	THR	1267	66.387	27.272	95.637	1.00	25.16
ATOM	4372	CA	THR	1267	65.947	28.356	96.511	1.00	25.76
ATOM	4373	CB	THR	1267	64.970	27.851	97.590	1.00	24.98
ATOM	4374	OG1	THR	1267	65.660	26.973	98.483	1.00	26.95
ATOM	4375	CG2	THR	1267	63.823	27.097	96.959	1.00	24.66
ATOM	4376	C	THR	1267	67.139	28.992	97.211	1.00	25.89
ATOM	4377	O	THR	1267	68.184	28.362	97.364	1.00	24.76
ATOM	4378	N	THR	1268	66.971	30.237	97.648	1.00	27.09
ATOM	4379	CA	THR	1268	68.043	30.961	98.319	1.00	27.57
ATOM	4380	CB	THR	1268	68.448	32.196	97.506	1.00	26.94
ATOM	4381	OG1	THR	1268	67.373	33.142	97.517	1.00	27.78
ATOM	4382	CG2	THR	1268	68.751	31.807	96.067	1.00	26.82
ATOM	4383	C	THR	1268	67.661	31.416	99.727	1.00	28.19
ATOM	4384	O	THR	1268	66.592	31.081	100.232	1.00	29.57
ATOM	4385	N	SER	1269	68.550	32.180	100.354	1.00	28.27
ATOM	4386	CA	SER	1269	68.321	32.690	101.698	1.00	27.09
ATOM	4387	CB	SER	1269	69.531	33.492	102.167	1.00	27.80
ATOM	4388	OG	SER	1269	70.564	32.638	102.611	1.00	30.19
ATOM	4389	C	SER	1269	67.089	33.577	101.722	1.00	26.99
ATOM	4390	O	SER	1269	66.454	33.743	102.757	1.00	28.65

Table_1

ATOM	4391	N	VAL	1270	66.757	34.155	100.577	1.00	26.45
ATOM	4392	CA	VAL	1270	65.592	35.020	100.481	1.00	25.98
ATOM	4393	CB	VAL	1270	65.882	36.247	99.591	1.00	25.68
ATOM	4394	CG1	VAL	1270	64.711	37.211	99.637	1.00	24.19
ATOM	4395	CG2	VAL	1270	67.156	36.937	100.054	1.00	25.38
ATOM	4396	C	VAL	1270	64.439	34.229	99.876	1.00	26.10
ATOM	4397	O	VAL	1270	64.536	33.728	98.761	1.00	27.37
ATOM	4398	N	PRO	1271	63.332	34.095	100.618	1.00	26.68
ATOM	4399	CD	PRO	1271	63.108	34.627	101.969	1.00	26.37
ATOM	4400	CA	PRO	1271	62.172	33.350	100.115	1.00	26.81
ATOM	4401	CB	PRO	1271	61.208	33.333	101.303	1.00	26.59
ATOM	4402	CG	PRO	1271	62.022	33.753	102.491	1.00	26.24
ATOM	4403	C	PRO	1271	61.553	34.021	98.894	1.00	27.60
ATOM	4404	O	PRO	1271	61.401	35.243	98.862	1.00	28.39
ATOM	4405	N	GLY	1272	61.193	33.225	97.890	1.00	27.18
ATOM	4406	CA	GLY	1272	60.596	33.784	96.690	1.00	27.07
ATOM	4407	C	GLY	1272	61.631	34.114	95.634	1.00	27.04
ATOM	4408	O	GLY	1272	61.294	34.488	94.509	1.00	26.54
ATOM	4409	N	ILE	1273	62.900	33.985	96.004	1.00	27.45
ATOM	4410	CA	ILE	1273	63.999	34.251	95.088	1.00	27.67
ATOM	4411	CB	ILE	1273	65.003	35.248	95.688	1.00	28.07
ATOM	4412	CG2	ILE	1273	66.091	35.561	94.670	1.00	27.77
ATOM	4413	CG1	ILE	1273	64.271	36.518	96.123	1.00	28.35
ATOM	4414	CD1	ILE	1273	65.180	37.699	96.385	1.00	29.56

Table_1

ATOM	4415	C	ILE	1273	64.727	32.947	94.811	1.00	28.63
ATOM	4416	O	ILE	1273	65.211	32.289	95.729	1.00	29.26
ATOM	4417	N	PHE	1274	64.799	32.574	93.540	1.00	29.03
ATOM	4418	CA	PHE	1274	65.472	31.344	93.151	1.00	28.31
ATOM	4419	CB	PHE	1274	64.481	30.396	92.480	1.00	28.25
ATOM	4420	CG	PHE	1274	63.262	30.120	93.306	1.00	27.62
ATOM	4421	CD1	PHE	1274	63.117	28.911	93.971	1.00	28.00
ATOM	4422	CD2	PHE	1274	62.267	31.078	93.435	1.00	26.47
ATOM	4423	CE1	PHE	1274	61.995	28.659	94.749	1.00	29.12
ATOM	4424	CE2	PHE	1274	61.142	30.836	94.210	1.00	27.96
ATOM	4425	CZ	PHE	1274	61.007	29.626	94.871	1.00	29.11
ATOM	4426	C	PHE	1274	66.600	31.680	92.193	1.00	26.89
ATOM	4427	O	PHE	1274	66.664	32.792	91.674	1.00	27.51
ATOM	4428	N	ALA	1275	67.488	30.721	91.964	1.00	26.08
ATOM	4429	CA	ALA	1275	68.613	30.926	91.064	1.00	24.79
ATOM	4430	CB	ALA	1275	69.856	31.284	91.858	1.00	24.55
ATOM	4431	C	ALA	1275	68.869	29.685	90.217	1.00	24.74
ATOM	4432	O	ALA	1275	68.638	28.556	90.648	1.00	23.51
ATOM	4433	N	ALA	1276	69.358	29.903	89.004	1.00	24.38
ATOM	4434	CA	ALA	1276	69.630	28.805	88.101	1.00	22.65
ATOM	4435	CB	ALA	1276	68.370	28.448	87.353	1.00	22.67
ATOM	4436	C	ALA	1276	70.712	29.206	87.124	1.00	22.92
ATOM	4437	O	ALA	1276	70.772	30.357	86.706	1.00	24.02
ATOM	4438	N	GLY	1277	71.578	28.263	86.766	1.00	22.10

Table_1

ATOM	4439	CA	GLY	1277	72.625	28.569	85.812	1.00	20.00
ATOM	4440	C	GLY	1277	74.008	28.765	86.395	1.00	19.45
ATOM	4441	O	GLY	1277	74.231	28.520	87.574	1.00	18.89
ATOM	4442	N	ASP	1278	74.934	29.211	85.551	1.00	18.76
ATOM	4443	CA	ASP	1278	76.318	29.441	85.940	1.00	19.99
ATOM	4444	CB	ASP	1278	77.106	30.009	84.757	1.00	20.98
ATOM	4445	CG	ASP	1278	77.289	29.007	83.628	1.00	22.27
ATOM	4446	OD1	ASP	1278	78.031	29.329	82.678	1.00	24.10
ATOM	4447	OD2	ASP	1278	76.699	27.907	83.676	1.00	23.79
ATOM	4448	C	ASP	1278	76.444	30.404	87.109	1.00	20.27
ATOM	4449	O	ASP	1278	77.473	30.440	87.781	1.00	19.13
ATOM	4450	N	VAL	1279	75.402	31.194	87.337	1.00	21.93
ATOM	4451	CA	VAL	1279	75.401	32.177	88.414	1.00	24.14
ATOM	4452	CB	VAL	1279	74.134	33.072	88.334	1.00	24.83
ATOM	4453	CG1	VAL	1279	72.965	32.400	89.051	1.00	25.21
ATOM	4454	CG2	VAL	1279	74.426	34.442	88.937	1.00	24.69
ATOM	4455	C	VAL	1279	75.466	31.508	89.783	1.00	24.29
ATOM	4456	O	VAL	1279	75.923	32.105	90.761	1.00	24.99
ATOM	4457	N	ARG	1280	75.012	30.261	89.839	1.00	24.32
ATOM	4458	CA	ARG	1280	74.999	29.487	91.074	1.00	24.13
ATOM	4459	CB	ARG	1280	74.073	28.281	90.928	1.00	22.98
ATOM	4460	CG	ARG	1280	72.617	28.602	90.741	1.00	22.16
ATOM	4461	CD	ARG	1280	71.804	27.324	90.766	1.00	22.84
ATOM	4462	NE	ARG	1280	72.168	26.498	91.913	1.00	23.33

Table_1

ATOM	4463	CZ	ARG	1280	72.768	25.318	91.827	1.00	21.74
ATOM	4464	NH1	ARG	1280	73.108	24.833	90.643	1.00	20.25
ATOM	4465	NH2	ARG	1280	73.058	24.640	92.926	1.00	22.95
ATOM	4466	C	ARG	1280	76.367	28.962	91.486	1.00	24.45
ATOM	4467	O	ARG	1280	77.261	28.791	90.662	1.00	23.02
ATOM	4468	N	ASP	1281	76.519	28.695	92.777	1.00	25.53
ATOM	4469	CA	ASP	1281	77.756	28.128	93.281	1.00	26.34
ATOM	4470	CB	ASP	1281	77.751	28.139	94.813	1.00	27.62
ATOM	4471	CG	ASP	1281	79.032	27.586	95.406	1.00	29.11
ATOM	4472	OD1	ASP	1281	80.092	27.720	94.757	1.00	30.51
ATOM	4473	OD2	ASP	1281	78.983	27.021	96.521	1.00	29.74
ATOM	4474	C	ASP	1281	77.715	26.690	92.763	1.00	25.65
ATOM	4475	O	ASP	1281	77.045	25.842	93.346	1.00	24.70
ATOM	4476	N	LYS	1282	78.399	26.420	91.656	1.00	27.14
ATOM	4477	CA	LYS	1282	78.396	25.074	91.086	1.00	27.06
ATOM	4478	CB	LYS	1282	77.695	25.034	89.727	1.00	26.43
ATOM	4479	CG	LYS	1282	76.549	25.974	89.525	1.00	25.07
ATOM	4480	CD	LYS	1282	76.041	25.812	88.109	1.00	23.29
ATOM	4481	CE	LYS	1282	74.866	24.867	88.062	1.00	23.34
ATOM	4482	NZ	LYS	1282	74.500	24.528	86.662	1.00	21.62
ATOM	4483	C	LYS	1282	79.772	24.494	90.861	1.00	27.48
ATOM	4484	O	LYS	1282	80.775	24.992	91.361	1.00	27.15
ATOM	4485	N	GLY	1283	79.780	23.419	90.081	1.00	28.79
ATOM	4486	CA	GLY	1283	81.001	22.736	89.716	1.00	29.15

Table_1

ATOM	4487	C	GLY	1283	81.023	22.658	88.201	1.00	29.36
ATOM	4488	O	GLY	1283	81.889	23.242	87.547	1.00	32.56
ATOM	4489	N	LEU	1284	80.048	21.949	87.640	1.00	26.93
ATOM	4490	CA	LEU	1284	79.953	21.796	86.196	1.00	24.61
ATOM	4491	CB	LEU	1284	79.403	20.419	85.841	1.00	23.65
ATOM	4492	CG	LEU	1284	79.501	20.055	84.363	1.00	23.87
ATOM	4493	CD1	LEU	1284	80.906	20.332	83.848	1.00	24.29
ATOM	4494	CD2	LEU	1284	79.155	18.593	84.191	1.00	25.31
ATOM	4495	C	LEU	1284	79.054	22.858	85.597	1.00	23.73
ATOM	4496	O	LEU	1284	77.848	22.877	85.842	1.00	23.25
ATOM	4497	N	ARG	1285	79.649	23.741	84.805	1.00	22.46
ATOM	4498	CA	ARG	1285	78.900	24.808	84.170	1.00	20.48
ATOM	4499	CB	ARG	1285	79.592	26.147	84.423	1.00	20.26
ATOM	4500	CG	ARG	1285	79.037	26.888	85.632	1.00	18.92
ATOM	4501	CD	ARG	1285	80.038	27.855	86.224	1.00	18.39
ATOM	4502	NE	ARG	1285	79.726	28.143	87.620	1.00	19.02
ATOM	4503	CZ	ARG	1285	80.572	27.957	88.628	1.00	19.93
ATOM	4504	NH1	ARG	1285	81.782	27.474	88.396	1.00	19.73
ATOM	4505	NH2	ARG	1285	80.199	28.229	89.873	1.00	19.93
ATOM	4506	C	ARG	1285	78.761	24.554	82.674	1.00	20.05
ATOM	4507	O	ARG	1285	79.671	24.827	81.900	1.00	19.30
ATOM	4508	N	GLN	1286	77.607	24.025	82.279	1.00	21.00
ATOM	4509	CA	GLN	1286	77.331	23.718	80.881	1.00	20.53
ATOM	4510	CB	GLN	1286	77.571	22.235	80.613	1.00	20.36

Table_1

ATOM	4511	CG	GLN	1286	79.000	21.802	80.838	1.00	21.09
ATOM	4512	CD	GLN	1286	79.921	22.302	79.747	1.00	22.00
ATOM	4513	OE1	GLN	1286	80.031	21.693	78.685	1.00	20.62
ATOM	4514	NE2	GLN	1286	80.585	23.421	80.001	1.00	24.10
ATOM	4515	C	GLN	1286	75.890	24.048	80.550	1.00	20.09
ATOM	4516	O	GLN	1286	75.086	24.319	81.443	1.00	20.46
ATOM	4517	N	ILE	1287	75.567	24.024	79.262	1.00	20.28
ATOM	4518	CA	ILE	1287	74.208	24.301	78.818	1.00	19.46
ATOM	4519	CB	ILE	1287	74.071	24.132	77.289	1.00	18.23
ATOM	4520	CG2	ILE	1287	72.608	24.204	76.888	1.00	17.64
ATOM	4521	CG1	ILE	1287	74.878	25.210	76.562	1.00	17.00
ATOM	4522	CD1	ILE	1287	75.152	24.883	75.093	1.00	15.41
ATOM	4523	C	ILE	1287	73.309	23.279	79.496	1.00	20.08
ATOM	4524	O	ILE	1287	72.361	23.626	80.199	1.00	20.90
ATOM	4525	N	VAL	1288	73.639	22.009	79.291	1.00	21.14
ATOM	4526	CA	VAL	1288	72.878	20.903	79.851	1.00	20.24
ATOM	4527	CB	VAL	1288	73.547	19.555	79.509	1.00	20.16
ATOM	4528	CG1	VAL	1288	74.819	19.386	80.317	1.00	19.58
ATOM	4529	CG2	VAL	1288	72.578	18.413	79.768	1.00	18.75
ATOM	4530	C	VAL	1288	72.654	20.992	81.361	1.00	20.30
ATOM	4531	O	VAL	1288	71.653	20.479	81.863	1.00	20.83
ATOM	4532	N	THR	1289	73.567	21.628	82.094	1.00	19.76
ATOM	4533	CA	THR	1289	73.377	21.756	83.540	1.00	19.91
ATOM	4534	CB	THR	1289	74.717	21.760	84.342	1.00	19.50

Table_1

ATOM	4535	OG1	THR	1289	75.509	22.894	83.968	1.00	19.00
ATOM	4536	CG2	THR	1289	75.499	20.487	84.087	1.00	17.45
ATOM	4537	C	THR	1289	72.633	23.046	83.850	1.00	19.92
ATOM	4538	O	THR	1289	72.016	23.171	84.904	1.00	19.76
ATOM	4539	N	ALA	1290	72.700	24.005	82.929	1.00	20.35
ATOM	4540	CA	ALA	1290	72.015	25.286	83.096	1.00	20.57
ATOM	4541	CB	ALA	1290	72.543	26.294	82.093	1.00	18.54
ATOM	4542	C	ALA	1290	70.530	25.051	82.865	1.00	20.84
ATOM	4543	O	ALA	1290	69.677	25.498	83.634	1.00	21.67
ATOM	4544	N	THR	1291	70.229	24.337	81.792	1.00	20.63
ATOM	4545	CA	THR	1291	68.857	24.018	81.447	1.00	20.62
ATOM	4546	CB	THR	1291	68.800	23.269	80.121	1.00	20.77
ATOM	4547	OG1	THR	1291	69.634	22.108	80.203	1.00	20.97
ATOM	4548	CG2	THR	1291	69.293	24.153	78.993	1.00	19.21
ATOM	4549	C	THR	1291	68.254	23.133	82.524	1.00	21.77
ATOM	4550	O	THR	1291	67.068	23.225	82.823	1.00	23.60
ATOM	4551	N	GLY	1292	69.067	22.258	83.102	1.00	22.20
ATOM	4552	CA	GLY	1292	68.561	21.392	84.150	1.00	20.93
ATOM	4553	C	GLY	1292	68.183	22.202	85.373	1.00	20.06
ATOM	4554	O	GLY	1292	67.247	21.865	86.095	1.00	19.96
ATOM	4555	N	ASP	1293	68.927	23.280	85.598	1.00	20.02
ATOM	4556	CA	ASP	1293	68.708	24.176	86.729	1.00	17.78
ATOM	4557	CB	ASP	1293	69.836	25.204	86.806	1.00	18.77
ATOM	4558	CG	ASP	1293	71.026	24.702	87.573	1.00	18.03

Table_1

ATOM	4559	OD1	ASP	1293	70.940	23.582	88.110	1.00	18.78
ATOM	4560	OD2	ASP	1293	72.042	25.424	87.639	1.00	17.35
ATOM	4561	C	ASP	1293	67.401	24.927	86.566	1.00	18.03
ATOM	4562	O	ASP	1293	66.628	25.073	87.509	1.00	17.55
ATOM	4563	N	GLY	1294	67.173	25.413	85.350	1.00	18.51
ATOM	4564	CA	GLY	1294	65.978	26.180	85.054	1.00	18.05
ATOM	4565	C	GLY	1294	64.656	25.512	85.355	1.00	19.16
ATOM	4566	O	GLY	1294	63.794	26.096	86.016	1.00	21.14
ATOM	4567	N	SER	1295	64.480	24.294	84.862	1.00	19.25
ATOM	4568	CA	SER	1295	63.241	23.571	85.085	1.00	19.29
ATOM	4569	CB	SER	1295	63.297	22.208	84.398	1.00	19.88
ATOM	4570	OG	SER	1295	64.362	21.434	84.917	1.00	20.60
ATOM	4571	C	SER	1295	62.981	23.383	86.569	1.00	18.88
ATOM	4572	O	SER	1295	61.844	23.459	87.025	1.00	19.29
ATOM	4573	N	ILE	1296	64.040	23.135	87.327	1.00	19.59
ATOM	4574	CA	ILE	1296	63.886	22.933	88.760	1.00	19.36
ATOM	4575	CB	ILE	1296	65.188	22.393	89.394	1.00	18.05
ATOM	4576	CG2	ILE	1296	65.028	22.295	90.898	1.00	17.40
ATOM	4577	CG1	ILE	1296	65.509	21.011	88.823	1.00	16.83
ATOM	4578	CD1	ILE	1296	66.782	20.397	89.370	1.00	14.66
ATOM	4579	C	ILE	1296	63.489	24.238	89.434	1.00	19.76
ATOM	4580	O	ILE	1296	62.563	24.268	90.242	1.00	21.24
ATOM	4581	N	ALA	1297	64.184	25.319	89.098	1.00	21.08
ATOM	4582	CA	ALA	1297	63.882	26.621	89.680	1.00	21.08

Table_1

ATOM	4583	CB	ALA	1297	64.866	27.667	89.173	1.00	21.97
ATOM	4584	C	ALA	1297	62.463	27.020	89.316	1.00	21.50
ATOM	4585	O	ALA	1297	61.746	27.611	90.120	1.00	21.39
ATOM	4586	N	ALA	1298	62.056	26.697	88.095	1.00	22.33
ATOM	4587	CA	ALA	1298	60.712	27.026	87.651	1.00	23.50
ATOM	4588	CB	ALA	1298	60.537	26.655	86.186	1.00	21.86
ATOM	4589	C	ALA	1298	59.680	26.295	88.500	1.00	24.69
ATOM	4590	O	ALA	1298	58.703	26.892	88.953	1.00	25.35
ATOM	4591	N	GLN	1299	59.901	25.003	88.728	1.00	25.34
ATOM	4592	CA	GLN	1299	58.962	24.213	89.509	1.00	25.98
ATOM	4593	CB	GLN	1299	59.265	22.724	89.344	1.00	27.01
ATOM	4594	CG	GLN	1299	58.885	22.179	87.966	1.00	29.66
ATOM	4595	CD	GLN	1299	57.391	21.944	87.817	1.00	31.98
ATOM	4596	OE1	GLN	1299	56.760	21.330	88.681	1.00	33.21
ATOM	4597	NE2	GLN	1299	56.817	22.430	86.718	1.00	31.73
ATOM	4598	C	GLN	1299	58.923	24.584	90.985	1.00	26.13
ATOM	4599	O	GLN	1299	57.866	24.520	91.616	1.00	26.53
ATOM	4600	N	SER	1300	60.064	24.970	91.545	1.00	25.49
ATOM	4601	CA	SER	1300	60.098	25.359	92.953	1.00	25.92
ATOM	4602	CB	SER	1300	61.541	25.487	93.440	1.00	26.39
ATOM	4603	OG	SER	1300	62.262	24.296	93.194	1.00	25.63
ATOM	4604	C	SER	1300	59.386	26.691	93.118	1.00	26.10
ATOM	4605	O	SER	1300	58.746	26.954	94.140	1.00	25.65
ATOM	4606	N	ALA	1301	59.511	27.533	92.100	1.00	26.71

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Table_1

ATOM	4607	CA	ALA	1301	58.871	28.841	92.111	1.00	27.79
ATOM	4608	CB	ALA	1301	59.338	29.662	90.907	1.00	26.34
ATOM	4609	C	ALA	1301	57.362	28.643	92.062	1.00	29.12
ATOM	4610	O	ALA	1301	56.615	29.322	92.759	1.00	29.83
ATOM	4611	N	ALA	1302	56.916	27.693	91.252	1.00	29.65
ATOM	4612	CA	ALA	1302	55.489	27.426	91.129	1.00	30.38
ATOM	4613	CB	ALA	1302	55.255	26.355	90.062	1.00	30.04
ATOM	4614	C	ALA	1302	54.960	26.972	92.491	1.00	31.88
ATOM	4615	O	ALA	1302	53.953	27.485	92.975	1.00	32.27
ATOM	4616	N	GLU	1303	55.640	26.007	93.104	1.00	34.12
ATOM	4617	CA	GLU	1303	55.269	25.489	94.412	1.00	35.93
ATOM	4618	CB	GLU	1303	56.361	24.568	94.952	1.00	38.13
ATOM	4619	CG	GLU	1303	56.466	23.219	94.272	1.00	41.37
ATOM	4620	CD	GLU	1303	57.357	22.270	95.037	1.00	43.51
ATOM	4621	OE1	GLU	1303	57.900	22.673	96.090	1.00	45.93
ATOM	4622	OE2	GLU	1303	57.513	21.123	94.584	1.00	45.24
ATOM	4623	C	GLU	1303	55.127	26.674	95.351	1.00	36.11
ATOM	4624	O	GLU	1303	54.030	26.988	95.793	1.00	38.03
ATOM	4625	N	TYR	1304	56.236	27.354	95.628	1.00	35.88
ATOM	4626	CA	TYR	1304	56.244	28.521	96.509	1.00	35.18
ATOM	4627	CB	TYR	1304	57.550	29.275	96.330	1.00	35.64
ATOM	4628	CG	TYR	1304	57.518	30.690	96.846	1.00	34.92
ATOM	4629	CD1	TYR	1304	57.839	30.973	98.173	1.00	33.76
ATOM	4630	CE1	TYR	1304	57.842	32.274	98.645	1.00	34.66

Table_1

ATOM	4631	CD2	TYR	1304	57.189	31.753	96.003	1.00	34.29
ATOM	4632	CE2	TYR	1304	57.189	33.058	96.469	1.00	34.99
ATOM	4633	CZ	TYR	1304	57.514	33.308	97.790	1.00	35.00
ATOM	4634	OH	TYR	1304	57.516	34.592	98.271	1.00	34.96
ATOM	4635	C	TYR	1304	55.068	29.475	96.292	1.00	35.16
ATOM	4636	O	TYR	1304	54.366	29.826	97.238	1.00	35.44
ATOM	4637	N	ILE	1305	54.857	29.895	95.050	1.00	34.72
ATOM	4638	CA	ILE	1305	53.760	30.804	94.750	1.00	34.62
ATOM	4639	CB	ILE	1305	53.615	31.030	93.232	1.00	32.47
ATOM	4640	CG2	ILE	1305	52.166	31.281	92.857	1.00	30.59
ATOM	4641	CG1	ILE	1305	54.463	32.231	92.815	1.00	31.79
ATOM	4642	CD1	ILE	1305	55.052	32.129	91.428	1.00	30.96
ATOM	4643	C	ILE	1305	52.469	30.225	95.312	1.00	36.08
ATOM	4644	O	ILE	1305	51.748	30.883	96.057	1.00	36.12
ATOM	4645	N	GLU	1306	52.199	28.974	94.970	1.00	38.02
ATOM	4646	CA	GLU	1306	50.997	28.316	95.441	1.00	40.67
ATOM	4647	CB	GLU	1306	50.928	26.895	94.905	1.00	40.91
ATOM	4648	CG	GLU	1306	49.536	26.331	94.970	1.00	43.04
ATOM	4649	CD	GLU	1306	48.737	26.643	93.729	1.00	43.98
ATOM	4650	OE1	GLU	1306	48.143	25.708	93.168	1.00	46.75
ATOM	4651	OE2	GLU	1306	48.700	27.816	93.311	1.00	45.24
ATOM	4652	C	GLU	1306	50.907	28.287	96.959	1.00	42.27
ATOM	4653	O	GLU	1306	49.816	28.216	97.522	1.00	42.79
ATOM	4654	N	HIS	1307	52.059	28.324	97.618	1.00	44.03

Table_1

ATOM	4655	CA	HIS	1307	52.111	28.318	99.076	1.00	46.19
ATOM	4656	CB	HIS	1307	53.480	27.829	99.540	1.00	48.96
ATOM	4657	CG	HIS	1307	53.607	27.743	101.035	1.00	51.59
ATOM	4658	CD2	HIS	1307	53.053	26.884	101.922	1.00	52.96
ATOM	4659	ND1	HIS	1307	54.437	28.565	101.757	1.00	52.70
ATOM	4660	CE1	HIS	1307	54.377	28.242	103.026	1.00	53.52
ATOM	4661	NE2	HIS	1307	53.545	27.220	103.164	1.00	54.32
ATOM	4662	C	HIS	1307	51.869	29.739	99.539	1.00	46.74
ATOM	4663	O	HIS	1307	51.500	29.980	100.694	1.00	46.60
ATOM	4664	N	LEU	1308	52.088	30.680	98.630	1.00	48.13
ATOM	4665	CA	LEU	1308	51.850	32.068	98.921	1.00	48.49
ATOM	4666	CB	LEU	1308	52.518	32.974	97.892	1.00	47.17
ATOM	4667	CG	LEU	1308	53.913	33.452	98.296	1.00	47.21
ATOM	4668	CD1	LEU	1308	54.314	34.482	97.276	1.00	46.49
ATOM	4669	CD2	LEU	1308	53.961	34.049	99.722	1.00	46.44
ATOM	4670	C	LEU	1308	50.344	32.206	98.888	1.00	50.36
ATOM	4671	O	LEU	1308	49.715	32.564	97.888	1.00	50.53
ATOM	4672	N	ASN	1309	49.820	31.853	100.042	1.00	52.35
ATOM	4673	CA	ASN	1309	48.451	31.831	100.491	1.00	53.97
ATOM	4674	CB	ASN	1309	47.847	33.229	100.527	1.00	55.35
ATOM	4675	CG	ASN	1309	47.876	33.748	101.955	1.00	56.56
ATOM	4676	OD1	ASN	1309	47.591	34.913	102.253	1.00	58.07
ATOM	4677	ND2	ASN	1309	48.248	32.847	102.866	1.00	56.32
ATOM	4678	C	ASN	1309	47.505	30.727	100.144	1.00	53.85

Table_1

ATOM	4679	O	ASN	1309	47.047	30.431	99.034	1.00	53.04
ATOM	4680	N	ASP	1310	47.529	29.980	101.222	1.00	54.27
ATOM	4681	CA	ASP	1310	46.897	28.751	101.532	1.00	54.46
ATOM	4682	CB	ASP	1310	47.968	27.697	101.419	1.00	54.53
ATOM	4683	CG	ASP	1310	47.830	26.871	100.196	1.00	54.82
ATOM	4684	OD1	ASP	1310	47.322	27.351	99.159	1.00	54.97
ATOM	4685	OD2	ASP	1310	48.252	25.715	100.308	1.00	54.47
ATOM	4686	C	ASP	1310	46.796	29.193	102.972	1.00	54.18
ATOM	4687	O	ASP	1310	47.511	30.133	103.338	1.00	54.14
ATOM	4688	AP	FAD	1311	74.286	32.591	80.438	1.00	25.48
ATOM	4689	AO1	FAD	1311	75.523	33.331	80.906	1.00	25.54
ATOM	4690	AO2	FAD	1311	74.523	31.643	79.295	1.00	25.87
ATOM	4691	AO5*	FAD	1311	73.130	33.605	80.016	1.00	26.74
ATOM	4692	AC5*	FAD	1311	72.615	34.530	80.975	1.00	26.06
ATOM	4693	AC1*	FAD	1311	72.045	38.034	80.847	1.00	29.20
ATOM	4694	AO4*	FAD	1311	71.681	36.737	81.306	1.00	28.59
ATOM	4695	AC2*	FAD	1311	73.189	37.788	79.897	1.00	29.09
ATOM	4696	AO2*	FAD	1311	73.350	38.881	78.997	1.00	27.95
ATOM	4697	AC3*	FAD	1311	72.810	36.443	79.260	1.00	28.41
ATOM	4698	AO3*	FAD	1311	71.974	36.576	78.066	1.00	30.18
ATOM	4699	AC4*	FAD	1311	71.972	35.731	80.302	1.00	28.01
ATOM	4700	AN9	FAD	1311	72.272	38.800	82.047	1.00	29.39
ATOM	4701	AC8	FAD	1311	73.483	38.674	82.672	1.00	31.44
ATOM	4702	AN7	FAD	1311	73.352	39.643	83.751	1.00	29.93

Table_1

ATOM	4703	AC5	FAD	1311	72.034	40.318	83.565	1.00	28.48
ATOM	4704	AC6	FAD	1311	71.192	41.395	84.169	1.00	28.12
ATOM	4705	AN6	FAD	1311	71.575	42.064	85.249	1.00	26.86
ATOM	4706	AN1	FAD	1311	69.976	41.742	83.586	1.00	27.46
ATOM	4707	AC2	FAD	1311	69.575	41.071	82.464	1.00	27.86
ATOM	4708	AN3	FAD	1311	70.210	40.091	81.872	1.00	28.54
ATOM	4709	AC4	FAD	1311	71.435	39.776	82.485	1.00	28.97
ATOM	4710	O3P	FAD	1311	73.662	31.852	81.654	1.00	24.83
ATOM	4711	N1	FAD	1311	78.387	24.645	77.484	1.00	25.13
ATOM	4712	C2	FAD	1311	78.091	23.404	76.953	1.00	25.22
ATOM	4713	O2	FAD	1311	77.360	22.634	77.521	1.00	25.63
ATOM	4714	N3	FAD	1311	78.634	23.058	75.741	1.00	24.92
ATOM	4715	C4	FAD	1311	79.493	23.830	75.038	1.00	25.58
ATOM	4716	O4	FAD	1311	79.998	23.485	73.971	1.00	23.77
ATOM	4717	C4A	FAD	1311	79.833	25.218	75.594	1.00	25.95
ATOM	4718	N5	FAD	1311	80.666	26.104	74.936	1.00	26.97
ATOM	4719	C5A	FAD	1311	80.902	27.377	75.415	1.00	27.77
ATOM	4720	C6	FAD	1311	81.657	28.286	74.652	1.00	28.83
ATOM	4721	C7	FAD	1311	81.922	29.603	75.129	1.00	29.57
ATOM	4722	C7M	FAD	1311	82.685	30.537	74.218	1.00	30.12
ATOM	4723	C8	FAD	1311	81.432	29.983	76.433	1.00	29.83
ATOM	4724	C8M	FAD	1311	81.828	31.389	76.877	1.00	28.76
ATOM	4725	C9	FAD	1311	80.673	29.048	77.161	1.00	29.68
ATOM	4726	C9A	FAD	1311	80.363	27.741	76.649	1.00	28.55

Table_1

ATOM	4727	N10	FAD	1311	79.532	26.810	77.352	1.00	27.16
ATOM	4728	C10	FAD	1311	79.207	25.543	76.874	1.00	26.15
ATOM	4729	C1*	FAD	1311	78.878	27.146	78.659	1.00	26.21
ATOM	4730	C2*	FAD	1311	77.420	27.636	78.506	1.00	26.11
ATOM	4731	O2*	FAD	1311	77.226	28.590	77.479	1.00	25.57
ATOM	4732	C3*	FAD	1311	76.896	28.125	79.879	1.00	25.36
ATOM	4733	O3*	FAD	1311	77.157	27.193	80.907	1.00	26.59
ATOM	4734	C4*	FAD	1311	75.410	28.483	79.818	1.00	24.84
ATOM	4735	O4*	FAD	1311	75.064	29.251	78.671	1.00	24.01
ATOM	4736	C5*	FAD	1311	74.944	29.179	81.080	1.00	25.15
ATOM	4737	O5*	FAD	1311	73.549	29.337	80.938	1.00	24.29
ATOM	4738	P	FAD	1311	72.950	30.396	81.853	1.00	22.89
ATOM	4739	O1P	FAD	1311	71.481	30.485	81.479	1.00	24.48
ATOM	4740	O2P	FAD	1311	73.168	29.938	83.275	1.00	23.24
ATOM	4741	OH2	TIP3	1	90.708	-2.103	84.352	1.00	47.03
ATOM	4742	OH2	TIP3	2	86.354	9.756	71.773	1.00	31.78
ATOM	4743	OH2	TIP3	3	87.145	7.942	70.097	1.00	37.08
ATOM	4744	OH2	TIP3	4	83.083	17.901	69.642	1.00	23.16
ATOM	4745	OH2	TIP3	5	82.284	17.641	76.545	1.00	35.50
ATOM	4746	OH2	TIP3	6	68.020	-2.167	87.564	1.00	25.58
ATOM	4747	OH2	TIP3	7	62.783	-3.850	86.881	1.00	40.55
ATOM	4748	OH2	TIP3	8	63.629	-5.104	78.247	1.00	51.70
ATOM	4749	OH2	TIP3	9	63.155	-2.929	80.324	1.00	57.57
ATOM	4750	OH2	TIP3	10	64.162	1.159	77.863	1.00	40.30

Table_1

ATOM	4751	OH2	TIP3	11	59.622	10.852	78.078	1.00	23.74
ATOM	4752	OH2	TIP3	12	52.084	21.411	75.432	1.00	41.10
ATOM	4753	OH2	TIP3	13	62.559	18.012	79.862	1.00	16.18
ATOM	4754	OH2	TIP3	14	54.605	13.585	77.593	1.00	25.52
ATOM	4755	OH2	TIP3	15	60.847	18.706	73.915	1.00	22.43
ATOM	4756	OH2	TIP3	16	62.221	26.391	68.640	1.00	32.10
ATOM	4757	OH2	TIP3	17	63.033	7.489	65.649	1.00	36.33
ATOM	4758	OH2	TIP3	18	66.869	4.428	65.824	1.00	47.09
ATOM	4759	OH2	TIP3	19	71.762	12.624	66.628	1.00	27.85
ATOM	4760	OH2	TIP3	20	70.137	11.680	64.763	1.00	32.69
ATOM	4761	OH2	TIP3	21	67.337	11.724	64.417	1.00	37.82
ATOM	4762	OH2	TIP3	22	65.178	10.869	65.401	1.00	26.99
ATOM	4763	OH2	TIP3	23	67.619	7.879	61.714	1.00	50.49
ATOM	4764	OH2	TIP3	24	71.921	6.390	61.976	1.00	34.55
ATOM	4765	OH2	TIP3	25	73.378	10.473	63.365	1.00	29.44
ATOM	4766	OH2	TIP3	26	76.380	8.397	65.427	1.00	26.38
ATOM	4767	OH2	TIP3	27	78.401	0.099	69.665	1.00	44.39
ATOM	4768	OH2	TIP3	28	84.932	3.928	74.100	1.00	44.89
ATOM	4769	OH2	TIP3	29	81.394	3.931	67.010	1.00	48.62
ATOM	4770	OH2	TIP3	30	75.883	-6.702	72.930	1.00	19.06
ATOM	4771	OH2	TIP3	31	76.363	-7.662	75.135	1.00	19.32
ATOM	4772	OH2	TIP3	32	66.386	-10.152	74.952	1.00	43.51
ATOM	4773	OH2	TIP3	33	68.869	-6.875	86.858	1.00	26.09
ATOM	4774	OH2	TIP3	34	87.493	-9.246	90.634	1.00	40.76

Table_1

ATOM	4775	OH2	TIP3	35	72.773	-9.944	80.728	1.00	27.25
ATOM	4776	OH2	TIP3	36	76.558	-18.840	84.406	1.00	49.25
ATOM	4777	OH2	TIP3	37	86.085	-10.182	86.179	1.00	53.72
ATOM	4778	OH2	TIP3	38	68.554	7.357	86.067	1.00	20.07
ATOM	4779	OH2	TIP3	39	58.636	14.878	88.692	1.00	16.57
ATOM	4780	OH2	TIP3	40	55.224	12.484	89.157	1.00	54.91
ATOM	4781	OH2	TIP3	41	55.152	4.166	82.199	1.00	46.09
ATOM	4782	OH2	TIP3	42	49.829	2.903	81.153	1.00	48.68
ATOM	4783	OH2	TIP3	43	52.014	19.868	81.669	1.00	31.11
ATOM	4784	OH2	TIP3	44	55.992	20.865	81.871	1.00	29.37
ATOM	4785	OH2	TIP3	45	55.296	22.898	83.259	1.00	22.30
ATOM	4786	OH2	TIP3	46	47.848	19.915	73.405	1.00	37.27
ATOM	4787	OH2	TIP3	47	45.288	27.077	75.146	1.00	53.53
ATOM	4788	OH2	TIP3	48	47.496	24.588	91.221	1.00	43.54
ATOM	4789	OH2	TIP3	49	45.394	0.183	93.811	1.00	40.83
ATOM	4790	OH2	TIP3	50	41.861	2.085	93.111	1.00	31.40
ATOM	4791	OH2	TIP3	51	36.512	-3.024	100.489	1.00	46.88
ATOM	4792	OH2	TIP3	52	33.112	-2.876	102.998	1.00	51.80
ATOM	4793	OH2	TIP3	53	29.566	-7.194	98.729	1.00	36.17
ATOM	4794	OH2	TIP3	54	25.732	3.932	89.188	1.00	47.14
ATOM	4795	OH2	TIP3	55	64.813	-2.821	90.382	1.00	18.27
ATOM	4796	OH2	TIP3	56	72.761	5.746	101.279	1.00	40.29
ATOM	4797	OH2	TIP3	57	65.991	7.322	104.021	1.00	40.12
ATOM	4798	OH2	TIP3	58	62.498	8.877	98.707	1.00	42.57

Table_1

ATOM	4799	OH2	TIP3	59	70.731	12.288	96.380	1.00	42.40
ATOM	4800	OH2	TIP3	60	76.412	17.377	98.257	1.00	29.40
ATOM	4801	OH2	TIP3	61	73.869	18.823	91.155	1.00	40.78
ATOM	4802	OH2	TIP3	62	82.301	8.177	98.161	1.00	40.71
ATOM	4803	OH2	TIP3	63	65.267	13.069	86.036	1.00	24.16
ATOM	4804	OH2	TIP3	64	68.289	17.118	88.944	1.00	34.14
ATOM	4805	OH2	TIP3	65	68.124	17.151	91.880	1.00	42.22
ATOM	4806	OH2	TIP3	66	69.375	16.651	93.701	1.00	46.98
ATOM	4807	OH2	TIP3	67	65.728	18.462	92.824	1.00	39.79
ATOM	4808	OH2	TIP3	68	69.465	19.239	80.989	1.00	15.56
ATOM	4809	OH2	TIP3	69	88.413	12.142	93.432	1.00	38.24
ATOM	4810	OH2	TIP3	70	49.505	43.555	91.248	1.00	39.96
ATOM	4811	OH2	TIP3	71	50.828	29.282	79.215	1.00	31.31
ATOM	4812	OH2	TIP3	72	51.153	31.308	80.357	1.00	31.34
ATOM	4813	OH2	TIP3	73	50.367	24.899	78.516	1.00	32.14
ATOM	4814	OH2	TIP3	74	49.540	31.222	78.435	1.00	54.65
ATOM	4815	OH2	TIP3	75	74.024	40.474	73.026	1.00	48.04
ATOM	4816	OH2	TIP3	76	77.769	27.940	74.715	1.00	22.84
ATOM	4817	OH2	TIP3	77	80.396	21.514	72.525	1.00	26.72
ATOM	4818	OH2	TIP3	78	75.506	20.855	77.257	1.00	18.95
ATOM	4819	OH2	TIP3	79	75.058	20.012	70.925	1.00	24.96
ATOM	4820	OH2	TIP3	80	71.777	15.518	66.069	1.00	37.51
ATOM	4821	OH2	TIP3	81	71.437	18.411	64.176	1.00	59.89
ATOM	4822	OH2	TIP3	82	70.065	20.710	64.190	1.00	51.67

Table_1

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ATOM   4823   OH2 TIP3    83     66.778  19.526  65.787  1.00 49.58

ATOM   4824   OH2 TIP3    84     68.589  18.309  66.670  1.00 42.14

ATOM   4825   OH2 TIP3    85     73.416  24.809  63.442  1.00 28.98

ATOM   4826   OH2 TIP3    86     70.015  31.506  64.032  1.00 48.70

ATOM   4827   OH2 TIP3    87     69.991  29.660  61.536  1.00 55.89

ATOM   4828   OH2 TIP3    88     69.693  29.401  59.352  1.00 56.37

ATOM   4829   OH2 TIP3    89     65.086  22.022  62.779  1.00 59.13

ATOM   4830   OH2 TIP3    90     60.662  32.560  64.364  1.00 33.69

ATOM   4831   OH2 TIP3    91     63.093  26.854  66.217  1.00 23.03

ATOM   4832   OH2 TIP3    92     57.307  30.261  69.558  1.00 45.96

ATOM   4833   OH2 TIP3    93     52.098  32.257  72.987  1.00 41.67

ATOM   4834   OH2 TIP3    94     51.597  35.447  75.596  1.00 59.84

ATOM   4835   OH2 TIP3    95     52.912  35.607  73.113  1.00 33.81

ATOM   4836   OH2 TIP3    96     57.605  39.345  74.039  1.00 32.91

ATOM   4837   OH2 TIP3    97     65.610  49.670  80.318  1.00 53.04

ATOM   4838   OH2 TIP3    98     61.161  46.678  78.599  1.00 43.72

ATOM   4839   OH2 TIP3    99     60.723  45.825  76.756  1.00 27.76

ATOM   4840   OH2 TIP3   100     64.463  43.022  99.181  1.00 41.36

ATOM   4841   OH2 TIP3   101     62.251  46.416 102.025  1.00 64.01

ATOM   4842   OH2 TIP3   102     55.229  49.069 101.094  1.00 46.55

ATOM   4843   OH2 TIP3   103     53.576  41.005 101.525  1.00 35.10

ATOM   4844   OH2 TIP3   104     66.793  58.605  84.630  1.00 52.02

ATOM   4845   OH2 TIP3   105     73.055  31.836  85.807  1.00 23.56

ATOM   4846   OH2 TIP3   106     82.233  34.136  79.300  1.00 44.19
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Table_1

ATOM	4847	OH2	TIP3	107	82.637	23.710	84.353	1.00	19.90
ATOM	4848	OH2	TIP3	108	81.747	27.018	81.628	1.00	31.53
ATOM	4849	OH2	TIP3	109	80.436	29.599	80.845	1.00	29.83
ATOM	4850	OH2	TIP3	110	95.856	39.477	82.910	1.00	40.98
ATOM	4851	OH2	TIP3	111	91.988	40.846	83.677	1.00	66.93
ATOM	4852	OH2	TIP3	112	88.848	40.732	83.541	1.00	54.25
ATOM	4853	OH2	TIP3	113	99.874	39.193	79.505	1.00	41.13
ATOM	4854	OH2	TIP3	114	88.307	28.688	70.222	1.00	27.22
ATOM	4855	OH2	TIP3	115	84.882	35.045	61.335	1.00	66.87
ATOM	4856	OH2	TIP3	116	89.502	23.931	66.337	1.00	38.49
ATOM	4857	OH2	TIP3	117	88.923	30.184	81.609	1.00	28.43
ATOM	4858	OH2	TIP3	118	97.425	17.694	62.622	1.00	64.30
ATOM	4859	OH2	TIP3	119	107.419	26.383	70.908	1.00	45.66
ATOM	4860	OH2	TIP3	120	89.502	12.915	81.201	1.00	54.91
ATOM	4861	OH2	TIP3	121	103.983	31.053	91.797	1.00	54.95
ATOM	4862	OH2	TIP3	123	105.815	17.495	81.626	1.00	34.62
ATOM	4863	OH2	TIP3	124	113.247	30.720	84.178	1.00	53.72
ATOM	4864	OH2	TIP3	125	110.926	35.215	87.400	1.00	53.44
ATOM	4865	OH2	TIP3	126	101.290	35.626	81.212	1.00	54.35
ATOM	4866	OH2	TIP3	127	98.983	30.688	55.179	1.00	46.18
ATOM	4867	OH2	TIP3	128	101.231	27.517	62.801	1.00	44.23
ATOM	4868	OH2	TIP3	129	107.272	43.115	75.317	1.00	52.31
ATOM	4869	OH2	TIP3	130	108.613	44.678	73.123	1.00	62.40
ATOM	4870	OH2	TIP3	131	82.438	42.399	82.722	1.00	63.98

Table_1

ATOM	4871	OH2	TIP3	132	80.645	39.057	91.241	1.00	52.71
ATOM	4872	OH2	TIP3	133	78.360	41.507	87.805	1.00	28.19
ATOM	4873	OH2	TIP3	134	73.680	40.581	86.403	1.00	18.17
ATOM	4874	OH2	TIP3	135	73.852	38.653	97.825	1.00	30.13
ATOM	4875	OH2	TIP3	136	75.455	32.849	101.109	1.00	36.77
ATOM	4876	OH2	TIP3	137	73.587	23.863	96.059	1.00	40.26
ATOM	4877	OH2	TIP3	138	70.017	21.622	100.075	1.00	22.22
ATOM	4878	OH2	TIP3	139	63.176	23.871	100.725	1.00	57.53
ATOM	4879	OH2	TIP3	140	62.222	26.452	101.370	1.00	51.29
ATOM	4880	OH2	TIP3	141	64.362	31.913	104.704	1.00	48.64
ATOM	4881	OH2	TIP3	142	75.165	25.865	84.241	1.00	23.32
ATOM	4882	OH2	TIP3	143	81.687	28.026	92.478	1.00	21.88
ATOM	4883	OH2	TIP3	144	82.860	25.872	91.386	1.00	40.48
ATOM	4884	OH2	TIP3	145	82.110	26.774	96.399	1.00	56.55
ATOM	4885	OH2	TIP3	146	82.578	26.865	99.441	1.00	50.08
ATOM	4886	OH2	TIP3	147	79.672	28.670	99.872	1.00	58.56
ATOM	4887	OH2	TIP3	148	77.087	22.754	94.222	1.00	52.46
ATOM	4888	OH2	TIP3	149	73.868	21.681	87.700	1.00	35.30
ATOM	4889	OH2	TIP3	150	83.705	25.842	86.536	1.00	50.34
ATOM	4890	OH2	TIP3	151	84.845	24.722	88.010	1.00	50.31
ATOM	4891	OH2	TIP3	152	86.309	22.437	86.972	1.00	44.49
ATOM	4892	OH2	TIP3	153	58.621	14.854	92.671	1.00	58.07
ATOM	4893	OH2	TIP3	154	57.936	16.952	92.783	1.00	43.07
ATOM	4894	OH2	TIP3	155	57.669	19.082	90.393	1.00	44.92